

SEQUENCE LISTING

<110> SYKES, KATHRYN F.
HALE, KATHERINE S.
JOHNSTON, STEPHEN A.

<120> METHODS FOR VACCINE IDENTIFICATION AND COMPOSITIONS FOR
VACCINATION COMPRISING NUCLEIC ACID AND/OR POLYPEPTIDE
SEQUENCES OF THE HERPESVIRUS FAMILY

<130> MCRO:002US

<140> UNKNOWN

<141> 2003-09-23

<150> 60/412,956

<151> 2002-09-23

<160> 116

<170> PatentIn Ver. 2.1

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<211> 342

<212> DNA

<213> Herpes Virus

<400> 1

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Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg Gln Trp Leu His
      35             40             45

Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp Asp Trp Pro Asp
      50             55             60

Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro Thr Ala Ala Ala
      65             70             75             80

Pro Arg Pro Arg Pro Pro Pro Gly Val Gly Pro Gly Gly Gly Ala
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      35           40           45

Pro Pro Pro Ala Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg
      50           55           60

Gln Trp Leu His Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp
      65           70           75           80

Asp Trp Pro Asp Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro
      85           90           95

Thr Ala Ala Ala Pro Arg Pro Arg Pro Pro Pro Pro Gly Val Gly Pro
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Gly Gly Gly Ala Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu
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Pro Pro Arg Leu Ala Leu Arg Leu Arg Val Thr Ala Glu His Leu Ala
      130           135           140

Arg Leu Arg Leu Arg Arg Ala Gly Gly Glu Gly Ala Pro Glu Pro Pro

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Ile	Gly	Pro	Cys	Leu	Gly	Pro	Glu	Ala	Arg	Ala	Arg	Ala	Leu	Ala	Arg						
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Gly	Ala	Gly	Pro	Ala	Asn	Ser	Val														
						245															

	85		90		95
Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu Ile Arg Gln Ala Leu	100		105		110
Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro Val Lys Ala Gly Cys	115		120		125
Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys Val Gly Arg Gln Asp	130		135		140
Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr Pro Val Leu Pro Pro	145		150		155
Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu Thr Thr Pro Pro Pro	165		170		175
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Ser Arg Arg Arg Arg	195				

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 Ala Arg Glu Val Gly Asp Ile Leu Lys Val Pro Cys Val Pro Leu Pro
 35 40 45
 Ser Asp Asp Leu Asp Trp Arg Tyr Glu Thr Pro Ser Ala Ile Asn Tyr
 50 55 60

Ala Leu Ile Asp Gly Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp
 65 70 75 80
 Thr Val Leu Trp Asp Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro
 85 90 95
 Phe Leu Phe Val Ala Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe
 100 105 110
 Pro Ala Asn Thr Gln Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu
 115 120 125
 Ile Arg Gln Ala Leu Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro
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 Val Lys Ala Gly Cys Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys
 145 150 155 160
 Val Gly Arg Gln Asp Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr
 165 170 175
 Pro Val Leu Pro Pro Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu
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 Thr Thr Pro Pro Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg
 195 200 205
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<210> 9
 <211> 1292
 <212> DNA
 <213> Herpes Virus

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<211> 430

<212> PRT

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35 40 45

Gln Gln Gln Leu Asp Gly Ala Gln Val Pro His Leu Gln Trp Phe Arg
50 55 60

Asp Val Ala Ala Leu Glu Ser Pro Ala Gly Leu Pro Leu Arg Glu Phe
65 70 75 80

Pro Phe Ala Val Tyr Leu Ile Thr Gly Asn Ala Gly Ser Gly Lys Ser
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Thr Cys Val Gln Thr Ile Asn Glu Val Leu Asp Cys Val Val Thr Gly
100 105 110

Ala Thr Arg Ile Ala Ala Gln Asn Met Tyr Ala Lys Leu Ser Gly Ala
115 120 125

Phe Leu Ser Arg Pro Ile Asn Thr Ile Phe His Glu Phe Gly Phe Arg
130 135 140

Gly Asn His Val Gln Ala Gln Leu Gly Gln Tyr Pro Tyr Thr Leu Thr
145 150 155 160

Ser Asn Pro Ala Ser Leu Glu Asp Leu Gln Arg Arg Asp Leu Thr Tyr
165 170 175

Tyr Trp Glu Val Ile Leu Asp Leu Thr Lys Arg Ala Leu Ala Ala Ser
180 185 190

Gly Gly Glu Glu Leu Arg Asn Glu Phe Arg Ala Leu Ala Ala Leu Glu
195 200 205

Arg Thr Leu Gly Leu Ala Glu Gly Ala Leu Thr Arg Leu Ala Pro Ala
210 215 220

Thr His Gly Ala Leu Pro Ala Phe Thr Arg Ser Asn Val Ile Val Ile
225 230 235 240

Asp Glu Ala Gly Leu Leu Gly Arg His Leu Leu Thr Ala Val Val Tyr
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Cys Trp Trp Met Ile Asn Ala Leu Tyr His Thr Pro Gln Tyr Ala Ala
260 265 270

Arg Leu Arg Pro Val Leu Val Cys Val Gly Ser Pro Thr Gln Thr Ala
 275 280 285
 Ser Leu Glu Ser Thr Phe Glu His Gln Lys Leu Arg Cys Ser Val Arg
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 Glu Tyr Ala Arg Leu Ser Tyr Ser Trp Ala Ile Phe Ile Asn Asn Lys
 325 330 335
 Arg Cys Val Glu His Glu Phe Gly Asn Leu Met Lys Val Leu Glu Tyr
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 Gly Leu Pro Ile Thr Glu Glu His Met Gln Phe Val Asp Arg Phe Val
 355 360 365
 Val Pro Glu Asn Tyr Ile Thr Asn Pro Ala Asn Leu Pro Gly Trp Thr
 370 375 380
 Arg Leu Phe Ser Ser His Lys Glu Val Ser Ala Tyr Met Ala Lys Leu
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<210> 12
 <211> 882
 <212> PRT
 <213> Herpes Virus

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<400> 12
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Ala Glu Ala Phe Leu Asn Phe Thr Ser Met His Gly Val Gln Pro Ile
  35          40          45

Leu Lys Arg Ile Arg Glu Leu Ser Gln Gln Gln Leu Asp Gly Ala Gln
  50          55          60

Val Pro His Leu Gln Trp Phe Arg Asp Val Ala Ala Leu Glu Ser Pro
  65          70          75          80

Ala Gly Leu Pro Leu Arg Glu Phe Pro Phe Ala Val Tyr Leu Ile Thr
          85          90          95

Gly Asn Ala Gly Ser Gly Lys Ser Thr Cys Val Gln Thr Ile Asn Glu
  100          105          110

Val Leu Asp Cys Val Val Thr Gly Ala Thr Arg Ile Ala Ala Gln Asn
  115          120          125

Met Tyr Ala Lys Leu Ser Gly Ala Phe Leu Ser Arg Pro Ile Asn Thr
  130          135          140

Ile Phe His Glu Phe Gly Phe Arg Gly Asn His Val Gln Ala Gln Leu
  145          150          155          160

Gly Gln Tyr Pro Tyr Thr Leu Thr Ser Asn Pro Ala Ser Leu Glu Asp
          165          170          175

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Leu Gln Arg Arg Asp Leu Thr Tyr Tyr Trp Glu Val Ile Leu Asp Leu
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 Thr Lys Arg Ala Leu Ala Ala Ser Gly Gly Glu Glu Leu Arg Asn Glu
 195 200 205
 Phe Arg Ala Leu Ala Ala Leu Glu Arg Thr Leu Gly Leu Ala Glu Gly
 210 215 220
 Ala Leu Thr Arg Leu Ala Pro Ala Thr His Gly Ala Leu Pro Ala Phe
 225 230 235 240
 Thr Arg Ser Asn Val Ile Val Ile Asp Glu Ala Gly Leu Leu Gly Arg
 245 250 255
 His Leu Leu Thr Ala Val Val Tyr Cys Trp Trp Met Ile Asn Ala Leu
 260 265 270
 Tyr His Thr Pro Gln Tyr Ala Ala Arg Leu Arg Pro Val Leu Val Cys
 275 280 285
 Val Gly Ser Pro Thr Gln Thr Ala Ser Leu Glu Ser Thr Phe Glu His
 290 295 300
 Gln Lys Leu Arg Cys Ser Val Arg Gln Ser Glu Asn Val Leu Thr Tyr
 305 310 315 320
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 325 330 335
 Trp Ala Ile Phe Ile Asn Asn Lys Arg Cys Val Glu His Glu Phe Gly
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 Met Gln Phe Val Asp Arg Phe Val Val Pro Glu Asn Tyr Ile Thr Asn
 370 375 380
 Pro Ala Asn Leu Pro Gly Trp Thr Arg Leu Phe Ser Ser His Lys Glu
 385 390 395 400
 Val Ser Ala Tyr Met Ala Lys Leu His Ala Tyr Leu Lys Val Thr Arg
 405 410 415
 Glu Gly Glu Phe Val Val Phe Thr Leu Pro Val Leu Thr Phe Val Ser
 420 425 430
 Val Lys Glu Phe Asp Glu Tyr Arg Arg Leu Thr His Gln Pro Gly Leu
 435 440 445
 Thr Ile Glu Lys Trp Leu Thr Ala Asn Ala Ser Arg Ile Thr Asn Tyr
 450 455 460
 Ser Gln Ser Gln Asp Gln Asp Ala Gly His Met Arg Cys Glu Val His
 465 470 475 480
 Ser Lys Gln Gln Leu Val Val Ala Arg Asn Asp Val Thr Tyr Val Leu
 485 490 495

Asn Ser Gln Ile Ala Val Thr Ala Arg Leu Arg Lys Leu Val Phe Gly
 500 505 510
 Phe Ser Gly Thr Phe Arg Ala Phe Glu Ala Val Leu Arg Asp Asp Ser
 515 520 525
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 545 550 555 560
 Gln Arg Pro Gly Leu Asp Ala Thr Gln Arg Thr Leu Ala Tyr Ala Arg
 565 570 575
 Met Gly Glu Leu Thr Ala Glu Ile Leu Ser Leu Arg Pro Lys Ser Ser
 580 585 590
 Gly Val Pro Thr Gln Ala Ser Val Met Ala Asp Ala Gly Ala Pro Gly
 595 600 605
 Glu Arg Ala Phe Asp Phe Lys Gln Leu Gly Pro Arg Asp Gly Gly Pro
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 Asp Asp Phe Pro Asp Asp Asp Leu Asp Val Ile Phe Ala Gly Leu Asp
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 Glu Val Ala Pro Phe Ser Thr Tyr Val Asp Asn Val Ile Phe Arg Gly
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 Glu Ser Ile Asp Ser Thr Glu Leu Ala Met Ala Ile Asn Ala Asp Tyr
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 Gly Ala Phe Trp Gly Val Phe Asn Val Asp Pro Gln Asp Ala Asp Ala
 115 120 125
 Ala Ser Gly Val Ile Glu Asp Ala Arg Arg Ala Ile Glu Thr Ala Val
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 Gly Ala Val Leu Arg Ala Asn Ala Val Arg Leu Arg His Pro Leu Cys
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 180 185 190
 Phe Pro Leu Arg Gly Pro Ala Tyr Thr Thr Ala Ala Gly Val Val Arg
 195 200 205
 Asp Thr Leu Arg Arg Val Leu Gly Leu Thr Thr Ala Cys Val Pro Glu
 210 215 220
 Glu Asp Ala Leu Thr Ala Arg Gly Leu Met Glu Asp Ala Cys Asp Arg
 225 230 235 240
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 245 250 255
 Val Arg Val Ser Pro Phe Glu Ala Ser Asp Pro Leu Pro Pro Thr Ala
 260 265 270
 Phe Arg Gly Gly Ala Leu Leu Asp Ala Glu His Tyr Trp Arg Arg Val
 275 280 285
 Val Arg Val Cys Pro Gly Gly Gly Glu Ser Val Gly Val Pro Val Asp
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Ala

<210> 15
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 aacgccgcag gggagggctc gcgcgccttt gcggaggtct ccgtcaccgc gacggagctg 180


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<210> 16
 <211> 750
 <212> PRT
 <213> Herpes Virus

```

<400> 16
Met Asp Thr Ala Asp Ile Val Trp Val Glu Glu Ser Val Ser Ala Ile
  1             5             10            15

Thr Leu Tyr Ala Val Trp Leu Pro Pro Arg Ala Arg Glu Tyr Phe His
      20             25            30

Ala Leu Val Tyr Phe Val Cys Arg Asn Ala Ala Gly Glu Gly Arg Ala
      35             40            45

Arg Phe Ala Glu Val Ser Val Thr Ala Thr Glu Leu Arg Asp Phe Tyr
      50             55            60

Gly Ser Ala Asp Val Ser Val Gln Ala Val Val Ala Ala Ala Arg Ala
      65             70            75            80

Ala Thr Thr Pro Ala Ala Ser Pro Leu Glu Pro Leu Glu Asn Pro Thr
      85             90            95

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Leu Trp Arg Ala Leu Tyr Ala Cys Val Leu Ala Ala Leu Glu Arg Gln
 100 105 110
 Thr Gly Pro Val Ala Leu Phe Ala Pro Leu Arg Ile Gly Ser Asp Pro
 115 120 125
 Arg Thr Gly Leu Val Val Lys Val Glu Arg Ala Ser Trp Gly Pro Pro
 130 135 140
 Ala Ala Pro Arg Ala Ala Leu Leu Val Ala Glu Ala Asn Ile Asp Ile
 145 150 155 160
 Asp Pro Met Ala Leu Ala Ala Arg Val Ala Glu His Pro Asp Ala Arg
 165 170 175
 Leu Ala Trp Ala Arg Leu Ala Ala Ile Arg Asp Thr Pro Gln Cys Ala
 180 185 190
 Ser Ala Ala Ser Leu Thr Val Asn Ile Thr Thr Gly Thr Ala Leu Phe
 195 200 205
 Ala Arg Glu Tyr Gln Thr Leu Ala Phe Pro Pro Ile Lys Lys Glu Gly
 210 215 220
 Ala Phe Gly Asp Leu Val Glu Val Cys Glu Val Gly Leu Arg Pro Arg
 225 230 235 240
 Gly His Pro Gln Arg Val Thr Ala Arg Val Leu Leu Pro Arg Asp Tyr
 245 250 255
 Asp Tyr Phe Val Ser Ala Gly Glu Lys Phe Ser Ala Pro Ala Leu Val
 260 265 270
 Ala Leu Phe Arg Gln Trp His Thr Thr Val His Ala Ala Pro Gly Ala
 275 280 285
 Leu Ala Pro Val Phe Ala Phe Leu Gly Pro Glu Phe Glu Val Arg Gly
 290 295 300
 Gly Pro Val Pro Tyr Phe Ala Val Leu Gly Phe Pro Gly Trp Pro Thr
 305 310 315 320
 Phe Thr Val Pro Ala Thr Ala Glu Ser Ala Arg Asp Leu Val Arg Gly
 325 330 335
 Ala Ala Ala Ala Tyr Ala Ala Leu Leu Gly Ala Trp Pro Ala Val Gly
 340 345 350
 Ala Arg Val Val Leu Pro Pro Arg Ala Trp Pro Gly Val Ala Ser Ala
 355 360 365
 Ala Ala Gly Cys Leu Leu Pro Ala Val Arg Glu Ala Val Ala Arg Trp
 370 375 380
 His Pro Ala Thr Lys Ile Ile Gln Leu Leu Asp Pro Pro Ala Ala Val
 385 390 395 400
 Gly Pro Val Trp Thr Ala Arg Phe Cys Phe Pro Gly Leu Arg Ala Gln
 405 410 415
 Leu Leu Ala Ala Leu Ala Asp Leu Gly Gly Ser Gly Leu Ala Asp Pro

420										425										430											
His Gly Arg Thr Gly Leu Ala Arg Leu Asp Ala Leu Val Val Ala Ala	435	440	445																												
Pro Ser Glu Pro Trp Ala Gly Ala Val Leu Glu Arg Leu Val Pro Asp	450	455	460																												
Thr Cys Asn Ala Cys Pro Ala Leu Arg Gln Leu Leu Gly Gly Val Met	465	470	475	480																											
Ala Ala Val Cys Leu Gln Ile Glu Glu Thr Ala Ser Ser Val Lys Phe	485	490	495																												
Ala Val Cys Gly Gly Asp Gly Gly Ala Phe Trp Gly Val Phe Asn Val	500	505	510																												
Asp Pro Gln Asp Ala Asp Ala Ala Ser Gly Val Ile Glu Asp Ala Arg	515	520	525																												
Arg Ala Ile Glu Thr Ala Val Gly Ala Val Leu Arg Ala Asn Ala Val	530	535	540																												
Arg Leu Arg His Pro Leu Cys Leu Ala Leu Glu Gly Val Tyr Thr His	545	550	555	560																											
Ala Val Ala Trp Ser Gln Ala Gly Val Trp Phe Trp Asn Ser Arg Asp	565	570	575																												
Asn Thr Asp His Leu Gly Gly Phe Pro Leu Arg Gly Pro Ala Tyr Thr	580	585	590																												
Thr Ala Ala Gly Val Val Arg Asp Thr Leu Arg Arg Val Leu Gly Leu	595	600	605																												
Thr Thr Ala Cys Val Pro Glu Glu Asp Ala Leu Thr Ala Arg Gly Leu	610	615	620																												
Met Glu Asp Ala Cys Asp Arg Leu Ile Leu Asp Ala Phe Asn Lys Arg	625	630	635	640																											
Leu Asp Ala Glu Tyr Trp Ser Val Arg Val Ser Pro Phe Glu Ala Ser	645	650	655																												
Asp Pro Leu Pro Pro Thr Ala Phe Arg Gly Gly Ala Leu Leu Asp Ala	660	665	670																												
Glu His Tyr Trp Arg Arg Val Val Arg Val Cys Pro Gly Gly Gly Glu	675	680	685																												
Ser Val Gly Val Pro Val Asp Leu Tyr Pro Arg Pro Leu Val Leu Pro	690	695	700																												
Pro Val Asp Cys Ala His His Leu Arg Glu Ile Leu Arg Glu Ile Glu	705	710	715	720																											
Leu Val Phe Thr Gly Val Leu Ala Gly Val Trp Gly Glu Gly Gly Lys	725	730	735																												
Phe Val Tyr Pro Phe Asp Asp Lys Met Ser Phe Leu Phe Ala	740	745	750																												

<210> 17
 <211> 252
 <212> DNA
 <213> Herpes Virus

<400> 17
 tgccgaaaca acgtcctcat caccgacgac ggggaggtcg tctcgtgac cgcccacgac 60
 tttgacgtcg tggatatcga gtccgaagag gaaggtaatt tctacgtgcc cccggatatg 120
 cgcgggggta cgcggggccc ggggagacag cgcctgcgtt catcggaccc cccctcgcgc 180
 cacactcacc ggcggacccc cggaggcgcc tgccccgcca ccaggtttcc acccccatg 240
 tccgatagcg aa 252

<210> 18
 <211> 84
 <212> PRT
 <213> Herpes Virus

<400> 18
 Cys Arg Asn Asn Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu
 1 5 10 15
 Thr Ala His Asp Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly
 20 25 30
 Asn Phe Tyr Val Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly
 35 40 45
 Arg Gln Arg Leu Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg
 50 55 60
 Arg Thr Pro Gly Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met
 65 70 75 80
 Ser Asp Ser Glu

<210> 19
 <211> 291
 <212> DNA
 <213> Herpes Virus

<400> 19
 atgggcctct cgttctccgg ggcccggccc tgctgctgcc gaaacaacgt cctcatcacc 60
 gacgacgggg aggtcgtctc gctgaccgcc cagcactttg acgtcgtgga tatcgagtcc 120
 gaagaggaag gtaatttcta cgtgcccccg gatatgcgcg gggttacgcg ggccccgggg 180
 agacagcgcc tgcgttcacg ggaccccccc tcgcgccaca ctcaccggcg gacccccgga 240
 ggcgccctgcc ccgccacca gtttccaccc cccatgtccg atagcgaata a 291

<210> 20
 <211> 96
 <212> PRT
 <213> Herpes Virus

<400> 20
 Met Gly Leu Ser Phe Ser Gly Ala Arg Pro Cys Cys Cys Arg Asn Asn
 1 5 10 15

Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu Thr Ala His Asp
20 25 30

Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly Asn Phe Tyr Val
35 40 45

Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly Arg Gln Arg Leu
50 55 60

Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg Arg Thr Pro Gly
65 70 75 80

Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met Ser Asp Ser Glu
85 90 95

<210> 21
<211> 801
<212> DNA
<213> Herpes Virus

<400> 21
atggatgagt cccgcagaca gcgacctgct ggtcatgtgg cagctaacct cagcccccaa 60
ggtgcacgcc aacggtcctt caaggattgg ctgcgcatcct acgtacactc caacccccac 120
ggggcctccg ggcgccccag cggccctctt ctccaggacg ccgccgtctc ccgctcctcc 180
cacgggtccc gccaccgatc cggcctccgc gagcggcttc gcgcgggact atcccgatgg 240
cgaatgagcc gctcgtctca tcgcgcgcgc tcccccgaga cgcgcgggtac ggcggccaaa 300
ctgaaccgcc cggccctgcg cagatcccag gcggcggtta ccgcaccccc ctcgcccccc 360
tcgcacatcc tcaccctcac gcgcacccgc aagctatgca gccccgtgtt cgccatcaac 420
cccgccttac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480
ggatacgggt acgtccaact gattcgcgaa cataagcttg ccgtaagac cataaaggaa 540
aaggagtggg ttgcccgtga gctcatcgcg accctggttg tcggggagtg cgttctacgc 600
gccggccgca cccacaacat ccgcggcttc atcgcgcccc tcgggttctc gctgcaacaa 660
cgacagatag tgttccccgc gtacgacatg gacctcggta agtatatcgg ccaactggcg 720
tccttgcgca caacaaaccc ctcggtctcg acggccctcc accagtgcct caccggagctg 780
gcccgcgccg ttgtgttttt a 801

<210> 22
<211> 267
<212> PRT
<213> Herpes Virus

<400> 22
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
1 5 10 15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
20 25 30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
35 40 45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
50 55 60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp

65		70		75		80
Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly						
	85			90		95
Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala						
	100			105		110
Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg						
	115			120		125
Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His						
	130			135		140
Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly						
	145			150		155
Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys						
	165			170		175
Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu						
	180			185		190
Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg						
	195			200		205
Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val						
	210			215		220
Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala						
	225			230		235
Ser Leu Arg Thr Thr Asn Pro Ser Val Ser Thr Ala Leu His Gln Cys						
	245			250		255
Phe Thr Glu Leu Ala Arg Ala Val Val Phe Leu						
	260			265		

<210> 23

<211> 1557

<212> DNA

<213> Herpes Virus

<400> 23

atggatgagt	cccgagaca	gcgacctgct	ggatcatgtg	cagctaacct	cagcccccaa	60
ggtgcacgcc	aacggtcctt	caaggattgg	ctgcatacct	acgtacactc	caacccccac	120
ggggcctccg	ggcgccccag	cgccccctct	ctccaggacg	ccgccgtctc	ccgtcctctc	180
cacgggtccc	gccaccgatc	cgccctccgc	gagcgggttc	gcgcgggact	atcccgatgg	240
cgaatgagcc	gctcgtctca	tcgccgcgcg	tcccccgaga	cgcccgttac	ggcggccaaa	300
ctgaaccgcc	cgccccctgc	cagatcccag	gcggcggtta	ccgcaccccc	ctcgtcccc	360
tcgcacatcc	tcaccctcac	gcgcataccg	aagctatgca	gccccgtgtt	cgccatcaac	420
cccgccctac	actacacgac	cctcgagatc	cccggggccc	gaagcttcgg	ggggtctggg	480
ggatcgggtg	acgtccaact	gattcgcgaa	cataagcttg	ccgttaagac	cataaaggaa	540
aaggagtgg	ttgccgttga	gctcatcgcg	accctgttgg	tcggggagtg	cgttctacgc	600
gccggccgca	cccacaacat	ccgcgggttc	atcgcgcccc	tcgggttctc	gctgcaacaa	660
cgacagatag	tggtccccgc	gtacgacatg	gacctcggtg	agtatatcgg	ccaactggcg	720
tccttgcgca	caacaaaccc	ctcgggtctc	acggccctcc	accagtgttt	cacggagctg	780
gcccgcgcgc	ttgtgttttt	aaacaccacc	tgccgggatca	gccacctgga	tatcaagtgc	840
gccaacatcc	tcgtcatgct	gcggtcggac	gccgtctcgc	tccggcgggc	cgctctcgcc	900
gactttagcc	tcgtcacctc	caactccaac	tccacgatcg	cccgggggca	gttttgcttc	960

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caggagccgg acctcaagtc cccccggatg tttggcatgc ccaccgccct aaccacagcc 1020
aactttcaca ccctggtggg tcacgggtat aaccagcccc cggagctggt ggtgaaatac 1080
cttaacaacg aacggggccga atttaccac caccgcctga agcacgacgt cgggtagcgc 1140
gttgacctgt acgccctggg ccagacgctg ctggagttgg tggtagcgt gtacgtcgcc 1200
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cgccacctcc gcaatcccaa gattcggcgc gcgtttacgg atcggtgtat aaattaccag 1440
cacacacaca aggcgatact gtcgtcggtg gcgtgcctc ccgagcttaa gcctctcctg 1500
gtgctggtgt cccgcctgtg tcacaccaac ccgtgcgcgc ggcacgcgct gtcgtga 1557

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<210> 24
 <211> 518
 <212> PRT
 <213> Herpes Virus

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<400> 24
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
 1             5             10             15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
      20             25             30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
      35             40             45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
      50             55             60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp
      65             70             75             80

Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly
      85             90             95

Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala
      100            105            110

Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg
      115            120            125

Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His
      130            135            140

Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly
      145            150            155            160

Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys
      165            170            175

Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu
      180            185            190

Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg
      195            200            205

Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val
      210            215            220

Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala

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225		230		235		240									
Ser	Leu	Arg	Thr	Thr	Asn	Pro	Ser	Val	Ser	Thr	Ala	Leu	His	Gln	Cys
				245					250					255	
Phe	Thr	Glu	Leu	Ala	Arg	Ala	Val	Val	Phe	Leu	Asn	Thr	Thr	Cys	Gly
			260					265					270		
Ile	Ser	His	Leu	Asp	Ile	Lys	Cys	Ala	Asn	Ile	Leu	Val	Met	Leu	Arg
		275					280					285			
Ser	Asp	Ala	Val	Ser	Leu	Arg	Arg	Ala	Val	Leu	Ala	Asp	Phe	Ser	Leu
	290					295					300				
Val	Thr	Leu	Asn	Ser	Asn	Ser	Thr	Ile	Ala	Arg	Gly	Gln	Phe	Cys	Leu
305					310					315					320
Gln	Glu	Pro	Asp	Leu	Lys	Ser	Pro	Arg	Met	Phe	Gly	Met	Pro	Thr	Ala
				325					330					335	
Leu	Thr	Thr	Ala	Asn	Phe	His	Thr	Leu	Val	Gly	His	Gly	Tyr	Asn	Gln
			340					345					350		
Pro	Pro	Glu	Leu	Leu	Val	Lys	Tyr	Leu	Asn	Asn	Glu	Arg	Ala	Glu	Phe
		355					360					365			
Thr	Asn	His	Arg	Leu	Lys	His	Asp	Val	Gly	Leu	Ala	Val	Asp	Leu	Tyr
	370					375					380				
Ala	Leu	Gly	Gln	Thr	Leu	Leu	Glu	Leu	Val	Val	Ser	Val	Tyr	Val	Ala
385					390					395					400
Pro	Ser	Leu	Gly	Val	Pro	Val	Thr	Arg	Phe	Pro	Gly	Tyr	Gln	Tyr	Phe
				405					410					415	
Asn	Asn	Gln	Leu	Ser	Pro	Asp	Phe	Ala	Leu	Ala	Leu	Leu	Ala	Tyr	Arg
			420					425					430		
Cys	Val	Leu	His	Pro	Ala	Leu	Phe	Val	Asn	Ser	Ala	Glu	Thr	Asn	Thr
		435					440					445			
His	Gly	Leu	Ala	Tyr	Asp	Val	Pro	Glu	Gly	Ile	Arg	Arg	His	Leu	Arg
	450					455					460				
Asn	Pro	Lys	Ile	Arg	Arg	Ala	Phe	Thr	Asp	Arg	Cys	Ile	Asn	Tyr	Gln
465					470					475					480
His	Thr	His	Lys	Ala	Ile	Leu	Ser	Ser	Val	Ala	Leu	Pro	Pro	Glu	Leu
				485					490					495	
Lys	Pro	Leu	Leu	Val	Leu	Val	Ser	Arg	Leu	Cys	His	Thr	Asn	Pro	Cys
			500					505					510		
Ala	Arg	His	Ala	Leu	Ser										
				515											

<210> 25
 <211> 312
 <212> DNA
 <213> Herpes Virus

<400> 25
cagcagtacc tggagcgcct cgagaaacag aggcaactta aggtggggcg ggacgaggcg 60
tcggcgggcc tcaccatggg cggcgatgcc ctacgagtgc cctttttaga tttcgcgacc 120
gcgacccccca agcgccacca gaccgtggtc cctggcgctcg ggacgctcca cgactgctgc 180
gagcactcgc cgctcttctc ggccgtggcg cggcggtgc tggttaatag cctggtgccg 240
gcgcaactaa aggggcgtga tttcgggggc gaccacacgg ccaagctgga attcctggcc 300
cccgagttgg ta 312

<210> 26
<211> 104
<212> PRT
<213> Herpes Virus

<400> 26
Gln Gln Tyr Leu Glu Arg Leu Glu Lys Gln Arg Gln Leu Lys Val Gly
1 5 10 15
Ala Asp Glu Ala Ser Ala Gly Leu Thr Met Gly Gly Asp Ala Leu Arg
20 25 30
Val Pro Phe Leu Asp Phe Ala Thr Ala Thr Pro Lys Arg His Gln Thr
35 40 45
Val Val Pro Gly Val Gly Thr Leu His Asp Cys Cys Glu His Ser Pro
50 55 60
Leu Phe Ser Ala Val Ala Arg Arg Leu Leu Phe Asn Ser Leu Val Pro
65 70 75 80
Ala Gln Leu Lys Gly Arg Asp Phe Gly Gly Asp His Thr Ala Lys Leu
85 90 95
Glu Phe Leu Ala Pro Glu Leu Val
100

<210> 27
<211> 2208
<212> DNA
<213> Herpes Virus

<400> 27
atgttttggtc agcagctggc gtccgacgtc cagcagtacc tggagcgcct cgagaaacag 60
aggcaactta aggtggggcg ggacgaggcg tcggcgggcc tcaccatggg cggcgatgcc 120
ctacgagtgc cctttttaga tttcgcgacc gcgacccccca agcgccacca gaccgtggtc 180
cctggcgctcg ggacgctcca cgactgctgc gagcactcgc cgctcttctc ggccgtggcg 240
cggcggtgc tggttaatag cctggtgccg gcgcaactaa aggggcgtga tttcgggggc 300
gaccacacgg ccaagctgga attcctggcc cccgagttgg tacgggcggg ggcgcgactg 360
cggtttaagg agtgcgcgcc ggcgacgtg gtgcctcagc gtaacgccta ctatagcgtt 420
ctgaatacgt ttcaggccct ccaccgctcc gaagcctttc gccagctggg gcactttgtg 480
cgggactttg cccagctgct caaaacctcc ttcggggcct ccagcctcac ggagaccacg 540
ggccccccca aaaaacgggc caaggtggac gtggccaccc acggcgggac gtacggcacg 600
ctggagctgt tccaaaaaat gatccttatg cacgccacct actttctggc cgccgtgctc 660
ctcggggacc acgcggagca ggtcaacacg ttcctgcgtc tcgtgtttga gatccccctg 720
tttagcgacg cgccgtgcg ccacttcgcg cagcgcgcca ccgtgtttct cgtcccccg 780
cgccacggca agacctggtt tctggtgccc ctcacgcgc tgctgctggc ctctttcgg 840
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atcgacgcct gcctgcgggg ctggttcggt tcggcccagag tggaccacgt taaaggggaa 960
accatctcct tctcgtttcc ggacgggtcg cgcagtacca tcgtgtttgc ctccagccac 1020

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aacacaaaacg gaatccgagg ccaggacttt aacctgctct ttgtcgacga ggccaacttt 1080
attcgcccg atgcggtcca gacgattatg ggctttctca accaggccaa ctgcaagatt 1140
atcttcgtgt cgtccacca caccgggaag gccagtacga gctttttgta caacctccgc 1200
ggggccgcag acgagcttct caacgtgggtg acctatata gcgatgatca catgccgagg 1260
gtggtgacgc acacaaacgc cacggcctgt tcttggtata tcctcaacaa gcccgtttct 1320
atcacgatgg acggggcggt tcgccggacc gccgatttgt ttctggccga ttccttcattg 1380
caggagatca tcgggggcca ggccaggag accggcgacg accggcccg tctgaccaag 1440
tctgcggggg agcggtttct gttgtaccgc cctcgacca ccaccaacag cggcctcatg 1500
gcccccgatt tgtacgtgta cgtggatccc gcgttcacgg ccaacaccg agcctccggg 1560
accggcgctg ctgtcgtcgg gcgtaccgc gacgattata tcatcttcgc cctggagcac 1620
ttttttctcc gcgcgtcac ggcctcggcc cccgccgaca tcgcccgtg cgtcgtccac 1680
agtctgacgc aggtcctggc cctgcatccc ggggcgttct gcggcgctcg ggtggcggtc 1740
gagggaaata gcagccagga ctcggccgct gccatcgcca cgcacgtgca cacagagatg 1800
caccgcctac tggcctcgga gggggccgac gcgggctcgg gccccgagct tctcttctac 1860
cactgcgagc ctcccgggag cgcggtgctg taccctttt tcctgctcaa caaacagaag 1920
acgcccgcct ttgaacactt tattaaaaag tttaactccg ggggcgtcat ggcctcccag 1980
gagatcgttt ccgcgacggt gcgctgcag accgaccgg tcgagtatct gctcgagcag 2040
ctaaataacc tcaccgaaac cgtctcccc aacactgacg tccgtacgta ttccgaaaa 2100
cggaacggcg cctcggatga cttatggtc gccgtcatta tggccatcta cctcgcggcc 2160
caggccggac ctccgcacac attcgctcct atcacacgcg tctcgtga 2208

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<210> 28
 <211> 735
 <212> PRT
 <213> Herpes Virus

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<400> 28
Met Phe Gly Gln Gln Leu Ala Ser Asp Val Gln Gln Tyr Leu Glu Arg
  1             5             10             15

Leu Glu Lys Gln Arg Gln Leu Lys Val Gly Ala Asp Glu Ala Ser Ala
      20             25             30

Gly Leu Thr Met Gly Gly Asp Ala Leu Arg Val Pro Phe Leu Asp Phe
      35             40             45

Ala Thr Ala Thr Pro Lys Arg His Gln Thr Val Val Pro Gly Val Gly
      50             55             60

Thr Leu His Asp Cys Cys Glu His Ser Pro Leu Phe Ser Ala Val Ala
      65             70             75             80

Arg Arg Leu Leu Phe Asn Ser Leu Val Pro Ala Gln Leu Lys Gly Arg
      85             90             95

Asp Phe Gly Gly Asp His Thr Ala Lys Leu Glu Phe Leu Ala Pro Glu
      100            105            110

Leu Val Arg Ala Val Ala Arg Leu Arg Phe Lys Glu Cys Ala Pro Ala
      115            120            125

Asp Val Val Pro Gln Arg Asn Ala Tyr Tyr Ser Val Leu Asn Thr Phe
      130            135            140

Gln Ala Leu His Arg Ser Glu Ala Phe Arg Gln Leu Val His Phe Val
      145            150            155            160

Arg Asp Phe Ala Gln Leu Leu Lys Thr Ser Phe Arg Ala Ser Ser Leu
      165            170            175

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Thr Glu Thr Thr Gly Pro Pro Lys Lys Arg Ala Lys Val Asp Val Ala
 180 185 190
 Thr His Gly Arg Thr Tyr Gly Thr Leu Glu Leu Phe Gln Lys Met Ile
 195 200 205
 Leu Met His Ala Thr Tyr Phe Leu Ala Ala Val Leu Leu Gly Asp His
 210 215 220
 Ala Glu Gln Val Asn Thr Phe Leu Arg Leu Val Phe Glu Ile Pro Leu
 225 230 235 240
 Phe Ser Asp Ala Ala Val Arg His Phe Arg Gln Arg Ala Thr Val Phe
 245 250 255
 Leu Val Pro Arg Arg His Gly Lys Thr Trp Phe Leu Val Pro Leu Ile
 260 265 270
 Ala Leu Ser Leu Ala Ser Phe Arg Gly Ile Lys Ile Gly Tyr Thr Ala
 275 280 285
 His Ile Arg Lys Ala Thr Glu Pro Val Phe Glu Glu Ile Asp Ala Cys
 290 295 300
 Leu Arg Gly Trp Phe Gly Ser Ala Arg Val Asp His Val Lys Gly Glu
 305 310 315 320
 Thr Ile Ser Phe Ser Phe Pro Asp Gly Ser Arg Ser Thr Ile Val Phe
 325 330 335
 Ala Ser Ser His Asn Thr Asn Gly Ile Arg Gly Gln Asp Phe Asn Leu
 340 345 350
 Leu Phe Val Asp Glu Ala Asn Phe Ile Arg Pro Asp Ala Val Gln Thr
 355 360 365
 Ile Met Gly Phe Leu Asn Gln Ala Asn Cys Lys Ile Ile Phe Val Ser
 370 375 380
 Ser Thr Asn Thr Gly Lys Ala Ser Thr Ser Phe Leu Tyr Asn Leu Arg
 385 390 395 400
 Gly Ala Ala Asp Glu Leu Leu Asn Val Val Thr Tyr Ile Cys Asp Asp
 405 410 415
 His Met Pro Arg Val Val Thr His Thr Asn Ala Thr Ala Cys Ser Cys
 420 425 430
 Tyr Ile Leu Asn Lys Pro Val Phe Ile Thr Met Asp Gly Ala Val Arg
 435 440 445
 Arg Thr Ala Asp Leu Phe Leu Ala Asp Ser Phe Met Gln Glu Ile Ile
 450 455 460
 Gly Gly Gln Ala Arg Glu Thr Gly Asp Asp Arg Pro Val Leu Thr Lys
 465 470 475 480
 Ser Ala Gly Glu Arg Phe Leu Leu Tyr Arg Pro Ser Thr Thr Thr Asn
 485 490 495
 Ser Gly Leu Met Ala Pro Asp Leu Tyr Val Tyr Val Asp Pro Ala Phe

500					505					510					
Thr	Ala	Asn	Thr	Arg	Ala	Ser	Gly	Thr	Gly	Val	Ala	Val	Val	Gly	Arg
	515						520					525			
Tyr	Arg	Asp	Asp	Tyr	Ile	Ile	Phe	Ala	Leu	Glu	His	Phe	Phe	Leu	Arg
	530					535					540				
Ala	Leu	Thr	Gly	Ser	Ala	Pro	Ala	Asp	Ile	Ala	Arg	Cys	Val	Val	His
545					550					555					560
Ser	Leu	Thr	Gln	Val	Leu	Ala	Leu	His	Pro	Gly	Ala	Phe	Arg	Gly	Val
			565						570					575	
Arg	Val	Ala	Val	Glu	Gly	Asn	Ser	Ser	Gln	Asp	Ser	Ala	Val	Ala	Ile
			580					585					590		
Ala	Thr	His	Val	His	Thr	Glu	Met	His	Arg	Leu	Leu	Ala	Ser	Glu	Gly
	595						600					605			
Ala	Asp	Ala	Gly	Ser	Gly	Pro	Glu	Leu	Leu	Phe	Tyr	His	Cys	Glu	Pro
	610					615					620				
Pro	Gly	Ser	Ala	Val	Leu	Tyr	Pro	Phe	Phe	Leu	Leu	Asn	Lys	Gln	Lys
625					630					635					640
Thr	Pro	Ala	Phe	Glu	His	Phe	Ile	Lys	Lys	Phe	Asn	Ser	Gly	Gly	Val
			645					650						655	
Met	Ala	Ser	Gln	Glu	Ile	Val	Ser	Ala	Thr	Val	Arg	Leu	Gln	Thr	Asp
			660					665					670		
Pro	Val	Glu	Tyr	Leu	Leu	Glu	Gln	Leu	Asn	Asn	Leu	Thr	Glu	Thr	Val
	675					680					685				
Ser	Pro	Asn	Thr	Asp	Val	Arg	Thr	Tyr	Ser	Gly	Lys	Arg	Asn	Gly	Ala
	690					695					700				
Ser	Asp	Asp	Leu	Met	Val	Ala	Val	Ile	Met	Ala	Ile	Tyr	Leu	Ala	Ala
705					710					715				720	
Gln	Ala	Gly	Pro	Pro	His	Thr	Phe	Ala	Pro	Ile	Thr	Arg	Val	Ser	
			725						730					735	

<210> 29
 <211> 312
 <212> DNA
 <213> Herpes Virus

<400> 29
 aacgcactgt ggctctcctc cgtcgtaacg gagtcctgtc cctgcgtcgc cccgtgtctg 60
 tgggccaaga tggccagtg taccctggcg gtccaggggg atgctagcct gtgtccgctt 120
 ctctttggcc atcccgtgga tacggtcacc ctgctgcagg cccccgcgc tccttgcatc 180
 acggaccgtc tgcaagaggt cgtcggggga cggtcggcg cggacaacat cccccgacc 240
 agcgccgggt ggcgcctgtg tgtcttctct tcgtacatca gtcgcctatt tgctacgagt 300
 tgccccaccg tt 312

<210> 30
 <211> 104

<212> PRT
 <213> Herpes Virus

<400> 30
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val
 1 5 10 15
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln
 20 25 30
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr
 35 40 45
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu
 50 55 60
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr
 65 70 75 80
 Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu
 85 90 95
 Phe Ala Thr Ser Cys Pro Thr Val
 100

<210> 31
 <211> 1122
 <212> DNA
 <213> Herpes Virus

<400> 31
 atggcgcagc tgggaccccg gcggcccctg gcgcgcgctg gtcccccggg gaccttgccc 60
 cgcccggtatt cccgggcccgg agctcgcggc acgcgcgata gattcgacga cctgggggacg 120
 gacgtcgact ctatcgcgcg cattgtcaac tccgtctttg tgtggcgcggt cgttcggggcg 180
 gacgagcggc tcaagatctt tcggtgtcta acggctctca ccgagcctct gtgtcagggtg 240
 gcccttccta acccagaccc cgggcgcgcc ctcttctgcg agatttttct gtatctgacg 300
 cgccccaaagg cgtgcggtt gccccegaac acctctttt cctcttttt ctttaaccgc 360
 gagcgccgct actgcgcgat cgtccacctc cggagcgtga cgcacccct gaccccgctc 420
 ctgtgcaccc tcacgttcgc acgcatacgg gcggccaccc ccccgaggga aacccccgac 480
 ccaaccaccg aacagctcgc ggaggagcca gtggtcggcg agctggatgg cgcgtatctg 540
 gtccccgcga agaccccccc ggagccgggc gcgtgctgcg ccttggggcc gggggccttg 600
 tggcacctcc ccagcggcca gatctactgc tgggccaatg acagcgacct ggggtcgctc 660
 tgtccaccgg gaagcagggc ccgccatctg ggatggctcc tggccaggat caccaaccac 720
 ccgggggggct gcgagtcctg cgcgccgcgc cccacatcg attccgcaa cgcactgtgg 780
 ctctcctccg tcgtaacgga gtcctgtccc tgcgtcgccc cgtgtctgtg ggccaagatg 840
 gccagtgta ccctggcggt ccagggggat gctagcctgt gtccgcttct ctttggccat 900
 cccgtggata cggtcaccct gctgcaggcc ccccgccgtc cttgcatcac ggaccgtctg 960
 caagaggtcg tcgggggacg gtgcggcgcg gacaacatcc ccccgaccag cgccgggtgg 1020
 cgcctgtgtg tcttctcttc gtacatcagt cgcctatttg ctacgagttg cccaccggtt 1080
 gcccgggcgc ttgccggggc ctctcaagc gatcccgaa aa 1122

<210> 32
 <211> 373
 <212> PRT
 <213> Herpes Virus

<400> 32
 Met Ala Gln Leu Gly Pro Arg Arg Pro Leu Ala Pro Pro Gly Pro Pro
 1 5 10 15

Gly Thr Leu Pro Arg Pro Asp Ser Arg Ala Gly Ala Arg Gly Thr Arg
 20 25 30
 Asp Arg Val Asp Asp Leu Gly Thr Asp Val Asp Ser Ile Ala Arg Ile
 35 40 45
 Val Asn Ser Val Phe Val Trp Arg Val Val Arg Ala Asp Glu Arg Leu
 50 55 60
 Lys Ile Phe Arg Cys Leu Thr Val Leu Thr Glu Pro Leu Cys Gln Val
 65 70 75 80
 Ala Leu Pro Asn Pro Asp Pro Gly Arg Ala Leu Phe Cys Glu Ile Phe
 85 90 95
 Leu Tyr Leu Thr Arg Pro Lys Ala Leu Arg Leu Pro Pro Asn Thr Phe
 100 105 110
 Phe Ala Leu Phe Phe Phe Asn Arg Glu Arg Arg Tyr Cys Ala Ile Val
 115 120 125
 His Leu Arg Ser Val Thr His Pro Leu Thr Pro Leu Leu Cys Thr Leu
 130 135 140
 Thr Phe Ala Arg Ile Arg Ala Ala Thr Pro Pro Glu Glu Thr Pro Asp
 145 150 155 160
 Pro Thr Thr Glu Gln Leu Ala Glu Glu Pro Val Val Gly Glu Leu Asp
 165 170 175
 Gly Ala Tyr Leu Val Pro Ala Lys Thr Pro Pro Glu Pro Gly Ala Cys
 180 185 190
 Cys Ala Leu Gly Pro Gly Ala Trp Trp His Leu Pro Ser Gly Gln Ile
 195 200 205
 Tyr Cys Trp Ala Met Asp Ser Asp Leu Gly Ser Leu Cys Pro Pro Gly
 210 215 220
 Ser Arg Ala Arg His Leu Gly Trp Leu Leu Ala Arg Ile Thr Asn His
 225 230 235 240
 Pro Gly Gly Cys Glu Ser Cys Ala Pro Pro Pro His Ile Asp Ser Ala
 245 250 255
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val
 260 265 270
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln
 275 280 285
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr
 290 295 300
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu
 305 310 315 320
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr
 325 330 335

Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu
 340 345 350

Phe Ala Thr Ser Cys Pro Thr Val Ala Arg Ala Val Ala Arg Ala Ser
 355 360 365

Ser Ser Asp Pro Glu
 370

<210> 33
 <211> 1425
 <212> DNA
 <213> Herpes Virus

<400> 33
 tgggtggggg aggtgaccag gcgcttcccc attctcctcg agaacctgat gcgcgccgtc 60
 gaggggaccg ccccgacgc cttttttcac accgcgtatg ccctggccgt cctggcacac 120
 ctggggggac ggggcggctg ggggcggcgg gtcgtcccgc tcggcgacga cctcccgccc 180
 cgctttgccc actccgacgg ccattacgtt ttgactact acagcacaag cggagacacg 240
 ctgcggctta acaatcgctc aatcgccgtg gcgatggatg gtgacgtcag taaacgcgag 300
 cagagtaaat gtcgcttcat ggaggccgtc ccctccacag cccacgcag ggtctgcgag 360
 caatacctgc ccggggaaaag ctacgcctac ctctgcctgg ggtttaatcg ccgcctctgt 420
 ggcatagttg tctttcccg cggttttgcg ttcaccatta acatcgccgc ctaccttagc 480
 ctctcgacc ccgtcgcgcg ggccgctgtc cttaggtttt gtcgcaaggt gtcgtccggg 540
 aacggccggg ctgcgtagcg ggcgcttcc cccggccacc tcgcccaccc actcctcccc 600
 gcgcggttg ccccgccctc tggggtttgc cctccccccg ccccgccat ggcgcagctg 660
 ggaccccggc ggccctggc gccgcctggt ccccgggga ccttgcccc gccgattcc 720
 cgggcggag ctgcggcac gcgcgataga gtcgacgacc tggggacgga cgtcgactct 780
 atcgcgcgca ttgtcaactc cgtctttgtg tggcgcgctg ttggggcgga cgagcggtc 840
 aagatctttc ggtgtctaac ggtcctcacc gagcctctgt gtcaggtggc ccttctaacc 900
 ccagaccccg ggcgcgccct cttctgcgag atttttctgt atctgacgcg cccaaggcg 960
 ctgcggttgc ccccgaaacac cttctttgcc ctctttttct ttaaccgga gcgccgtac 1020
 tgcgcgatcg tccacctcg gagcgtgacg caccctga ccccgctct gtgacacctc 1080
 acgttcgcac gcatacgggc ggccacccc cccgaggaaa ccccgaccc aaccaccgaa 1140
 cagctcgcg aggagccagt ggtcggcgag ctggatggcg cgtatctggt ccccggaag 1200
 acccccccg agccgggcgc gtgctgcgcc ttggggcccg gggcctggtg gcacctcccc 1260
 agcggccaga tctactgctg ggccatggac agcgacctg ggtcgctctg tccaccggga 1320
 agcagggcc gccatctggg atggctcctg gccaggatca ccaaccaccc ggggggctgc 1380
 gagtctgcg ccccgccgcc ccacatcgat tccgccaacg cactg 1425

<210> 34
 <211> 185
 <212> PRT
 <213> Herpes Virus

<400> 34
 Trp Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu
 1 5 10 15
 Met Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala
 20 25 30
 Tyr Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly
 35 40 45
 Arg Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp
 50 55 60
 Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr

65		70		75		80
Leu Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val						
	85			90		95
Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser						
	100		105		110	
Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr						
	115		120		125	
Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val						
	130		135		140	
Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser						
	145		150		155	160
Leu Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys						
	165		170		175	
Val Ser Ser Gly Asn Gly Arg Ser Arg						
	180		185			

<210> 35
 <211> 1068
 <212> DNA
 <213> Herpes Virus

<400> 35
 gccaacgagg tccagacgat ctcggccacg gcccggtcg gccctcggtc tttggttcac 60
 gtcacatcat ccagcgagtg cctggcggcc gcgggaatcc ctctggccgc cctgatgcgc 120
 ggccgccccg gactcgggac ggccgcaaac ttccaggtcg aaatccagac tcggggtcat 180
 gccaccggcg actgtacccc gtggtgcacg gcgtttgccg cctacgtgcc cgcggatgcg 240
 gtggggggagc ttctggcccc cgctgtgccg gcacaccctg gcctccttcc gcgtgcgtcc 300
 agcgccgggg ggttggtcgt ctccctgccc gtggtgtgtg acgcgcaggg cgtctatgac 360
 ccgtacgccg tggcggcgct gcgccttgcg tggggctcgg gggcgagctg tgcccgcgtg 420
 attctgttta gttacgacga gctcgtcccc cccaacacgc gctacgcggc cgacagcacg 480
 cgcacatcat gcgtctgtcg gcatttgtgc cgctacgtcg ctctgcttgg cgccgcccgc 540
 ccgccggccg cgaaggaggc tgcggcccac ctgtccatgg gtctggggga aagcgcgtcc 600
 ccgcgtccgc agcccttggc ccggcccccac gcggggggcg ccgcagaccc gcccatcgct 660
 ggggcgctccg acccccccat ctccccggag gagcagctga cggcccccg cggcgacacg 720
 accgcggccc aggaagtgtc catcgcacag gagaacgagg agatcctcgc gttggttcag 780
 cgggcagtgc aggacgtcac ccgcccccac ccggtccgag cgcggaccgg gcgtgcggcc 840
 tgtggcggtt catcggggct acgccagggc gccctggttc accaggccgt cagcgggggc 900
 gccatggggg cggctgacgc agatgcggtg ctggcggtc tggagcccc cggcgggggc 960
 cgctttgttg cccagcgcc ccacgggccc gggggcgagg acatcctgaa cgacgttcta 1020
 acccttacct ctggtaccgc aaagccgcgg tcgctggtcg agtggttg 1068

<210> 36
 <211> 356
 <212> PRT
 <213> Herpes Virus

<400> 36
 Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala Arg Val Gly Pro Arg
 1 5 10 15
 Ser Leu Val His Val Ile Ile Ser Ser Glu Cys Leu Ala Ala Ala Gly
 20 25 30

Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro Gly Leu Gly Thr Ala
 35 40 45
 Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala His Ala Thr Gly Asp
 50 55 60
 Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr Val Pro Ala Asp Ala
 65 70 75 80
 Val Gly Glu Leu Leu Ala Pro Val Val Pro Ala His Pro Gly Leu Leu
 85 90 95
 Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val Ser Leu Pro Val Val
 100 105 110
 Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala Val Ala Ala Leu Arg
 115 120 125
 Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg Val Ile Leu Phe Ser
 130 135 140
 Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr Ala Ala Asp Ser Thr
 145 150 155 160
 Arg Ile Met Arg Val Cys Arg His Leu Cys Arg Tyr Val Ala Leu Leu
 165 170 175
 Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala Ala Ala His Leu Ser
 180 185 190
 Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro Gln Pro Leu Ala Arg
 195 200 205
 Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile Val Gly Ala Ser Asp
 210 215 220
 Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala Pro Gly Gly Asp Thr
 225 230 235 240
 Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu Asn Glu Glu Ile Leu
 245 250 255
 Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr Arg Arg His Pro Val
 260 265 270
 Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val Ala Ser Gly Leu Arg
 275 280 285
 Gln Gly Ala Leu Val His Gln Ala Val Ser Gly Gly Ala Met Gly Ala
 290 295 300
 Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu Pro Pro Gly Gly Gly
 305 310 315 320
 Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly Gly Glu Asp Ile Leu
 325 330 335
 Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu
 340 345 350

Val Glu Trp Leu
355

<210> 37
<211> 1056
<212> DNA
<213> Herpes Virus

<400> 37
gttctaacc ttaccctgg taccgcaaag ccgcgggtcgc tggtcgagtg gttggatcgc 60
ggatgggaag ccctggccgg cggcgaccgg ccggactggc tgtggagccg tcgttctatc 120
tccgtggtcc tgcgccacca ctacggaacc aagcagcgct tcgtcgctgt ctctacgag 180
aactccgtgg cgtggggcgg gcgacgcgcc cgccctccgc tgcgtgcctc ggcgctggcc 240
acggccctga ccgaggcctg cgccgcagaa cgcgtcgtgc gccccacca gctgtctccc 300
gctgggcagg cggagctgct gctacgcttt ccgcgcctcg aggtgcccc tgcgccaccg 360
cgccccgtcc tgcgcgccct tgacatcgcc gccgaggtcg cctttaccgc gcgcatacat 420
ctggcggtgcc tccgggcccct gggccaggcc atccggggccg cgcttcaggg cggcccgcga 480
atctcacagc gcctgcgcta tgactttggc cccgaccaac gcgcgtggtt gggggagggtg 540
accaggcgct tcccattct cctcgagaac ctgatgcgcg ccgtcgaggg gaccgcccc 600
gacgcctttt ttcacaccgc gtatgccctg gccgtcctgg cacacctggg gggacggggc 660
ggtcgggggc ggcgggtcgt cccgctcgcc gacgacctcc cggcccgctt tgcgcactcc 720
gacggccatt acgtttttga ctactacagc acaagcggag acacgctgcg gcttaacaat 780
cgtccaatcg ccgtggcgat ggatggtgac gtcagtaaac gcgagcagag taaatgtcgc 840
ttcatggagg ccgtcccttc cacagcccca cgcagggtct gcgagcaata cctgcccggg 900
gaaagctacg cctacctctg cctgggggtt aatcgccgcc tctgtggcat agttgtcttt 960
cccggcggct ttgcgttcac cattaacatc gcggcctacc ttagcctctc ggaccccgctc 1020
gcgcgggccc ctgtccttag gttttgtcgc aagggtg 1056

<210> 38
<211> 352
<212> PRT
<213> Herpes Virus

<400> 38
Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu Val Glu
1 5 10 15
Trp Leu Asp Arg Gly Trp Glu Ala Leu Ala Gly Gly Asp Arg Pro Asp
20 25 30
Trp Leu Trp Ser Arg Arg Ser Ile Ser Val Val Leu Arg His His Tyr
35 40 45
Gly Thr Lys Gln Arg Phe Val Val Val Ser Tyr Glu Asn Ser Val Ala
50 55 60
Trp Gly Gly Arg Arg Ala Arg Pro Pro Leu Leu Ser Ser Ala Leu Ala
65 70 75 80
Thr Ala Leu Thr Glu Ala Cys Ala Ala Glu Arg Val Val Arg Pro His
85 90 95
Gln Leu Ser Pro Ala Gly Gln Ala Glu Leu Leu Leu Arg Phe Pro Ala
100 105 110
Leu Glu Val Pro Leu Arg His Pro Arg Pro Val Leu Pro Pro Phe Asp
115 120 125
Ile Ala Ala Glu Val Ala Phe Thr Ala Arg Ile His Leu Ala Cys Leu

130	135	140
Arg Ala Leu Gly Gln Ala Ile Arg Ala Ala Leu Gln Gly Gly Pro Arg 145 150 155 160		
Ile Ser Gln Arg Leu Arg Tyr Asp Phe Gly Pro Asp Gln Arg Ala Trp 165 170 175		
Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu Met 180 185 190		
Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala Tyr 195 200 205		
Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly Arg 210 215 220		
Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp Ser 225 230 235 240		
Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr Leu 245 250 255		
Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val Ser 260 265 270		
Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser Thr 275 280 285		
Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr Ala 290 295 300		
Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val Phe 305 310 315 320		
Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser Leu 325 330 335		
Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys Val 340 345 350		

<210> 39
 <211> 2112
 <212> DNA
 <213> Herpes Virus

<400> 39
 atgaacgcgc acttggccaa cgaggtccag acgatctcgg ccacggccccg ggtcgccct 60
 cggtcttttg ttcacgtcat catatccagc gaggccttg cggccgcggg aatccctctg 120
 gccgcctga tgcgcggccg ccccgactc gggacggccg caaacttcca ggtcgaaatc 180
 cagactcggg ctcatgccac cggcgactgt acccgtggt gcacggcggt tgccgcctac 240
 gtgcccgcgg atgcggtggg ggagcttctg gccccgctg tgccggcaca ccttgccctc 300
 cttccgcgtg cgtccagcgc cggggggttg ttcgtctccc tgcccggtgt gtgtgacgcg 360
 cagggcgctc atgaccgcga cgcgtggcg gcgctgcgcc ttgcgtgggg ctcgggggcg 420
 agctgtgccc gcgtgattct gtttagttac gacgagctcg tccccccaa cacgcgtac 480
 gcggccgaca gcacgcgcac catgcgcgtc tgcggcatt tgtgcgcta cgtcgctctg 540
 cttggcgccg ccgccccgcc ggccgcgaag gaggtgcgg ccacactgtc catgggtctg 600

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cccggcgggc acacgaccgc ggcccaggac gtgtccatcg cacaggagaa cgaggagatc 780
ctcgcgttgg ttcagcgggc agtgcaggac gtcacccgcc gccacccggc ccgagcgcg 840
accgggcgtg cggcctgtgg cgttgcatcg gggctacgcc agggcgccct gggtcaccag 900
gccgtcagcg ggggcgccat gggggcggtc gacgcagatg cggtgctggc gggtctggag 960
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gttgtctttc ccggcggtt tgcgttcacc attaacatcg cggcctacct tagcctctcg 2040
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cgtctcgtc ag 2112

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<210> 40
 <211> 703
 <212> PRT
 <213> Herpes Virus

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<400> 40
Met Asn Ala His Leu Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala
  1              5              10              15

Arg Val Gly Pro Arg Ser Leu Val His Val Ile Ile Ser Ser Glu Cys
          20              25              30

Leu Ala Ala Ala Gly Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro
          35              40              45

Gly Leu Gly Thr Ala Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala
          50              55              60

His Ala Thr Gly Asp Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr
          65              70              75              80

Val Pro Ala Asp Ala Val Gly Glu Leu Leu Ala Pro Val Val Pro Ala
          85              90              95

His Pro Gly Leu Leu Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val
          100             105             110

Ser Leu Pro Val Val Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala
          115             120             125

Val Ala Ala Leu Arg Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg
          130             135             140

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Val Ile Leu Phe Ser Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr
 145 150 155 160
 Ala Ala Asp Ser Thr Arg Ile Met Arg Val Cys Arg His Leu Cys Arg
 165 170 175
 Tyr Val Ala Leu Leu Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala
 180 185 190
 Ala Ala His Leu Ser Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro
 195 200 205
 Gln Pro Leu Ala Arg Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile
 210 215 220
 Val Gly Ala Ser Asp Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala
 225 230 235 240
 Pro Gly Gly Asp Thr Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu
 245 250 255
 Asn Glu Glu Ile Leu Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr
 260 265 270
 Arg Arg His Pro Val Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val
 275 280 285
 Ala Ser Gly Leu Arg Gln Gly Ala Leu Val His Gln Ala Val Ser Gly
 290 295 300
 Gly Ala Met Gly Ala Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu
 305 310 315 320
 Pro Pro Gly Gly Gly Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly
 325 330 335
 Gly Glu Asp Ile Leu Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala
 340 345 350
 Lys Pro Arg Ser Leu Val Glu Trp Leu Asp Arg Gly Trp Glu Ala Leu
 355 360 365
 Ala Gly Gly Asp Arg Pro Asp Trp Leu Trp Ser Arg Arg Ser Ile Ser
 370 375 380
 Val Val Leu Arg His His Tyr Gly Thr Lys Gln Arg Phe Val Val Val
 385 390 395 400
 Ser Tyr Glu Asn Ser Val Ala Trp Gly Gly Arg Arg Ala Arg Pro Pro
 405 410 415
 Leu Leu Ser Ser Ala Leu Ala Thr Ala Leu Thr Glu Ala Cys Ala Ala
 420 425 430
 Glu Arg Val Val Arg Pro His Gln Leu Ser Pro Ala Gly Gln Ala Glu
 435 440 445
 Leu Leu Leu Arg Phe Pro Ala Leu Glu Val Pro Leu Arg His Pro Arg
 450 455 460
 Pro Val Leu Pro Pro Phe Asp Ile Ala Ala Glu Val Ala Phe Thr Ala

tcgctgggtcc ttaacatggt ttactcgatc acggagggaa ccaccatcat ccttacgcta 660
atcccccggc tctttgcgct aagtgeccag gacgggtacg tgaacgctct actgcagatg 720
cagagtgtca cgcgggaggc cgcccagctc attcaccccg aagccccggc cctgatgcag 780
gatggagagc gaaggctgcc gctttacgag gcgctcgtcg cctgggtgac ccacgcgggc 840
caactaggag acaccttggc cctggctccc gtggttcggg tgtgcacctt tgacggcgcg 900
gccgttgtgc ggtccggaga catggccccc gttatacgct at 942

<210> 42
<211> 314
<212> PRT
<213> Herpes Virus

<400> 42
Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile Ser Arg Pro
1 5 10 15
Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val Phe Leu Pro
20 25 30
Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His Glu Ser Phe
35 40 45
Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu Leu Ala Tyr
50 55 60
Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro Thr Arg Ile
65 70 75 80
Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly Thr Val Asn
85 90 95
Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp Pro Ile Ser
100 105 110
Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val Arg Leu Asp
115 120 125
Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro Ser Pro Leu
130 135 140
Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile Arg Asp Leu
145 150 155 160
Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu Asn Val Leu
165 170 175
Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val Gln Gln Leu
180 185 190
Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn Met Val Tyr
195 200 205
Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile Pro Arg Leu
210 215 220
Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu Leu Gln Met
225 230 235 240
Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro Glu Ala Pro
245 250 255

Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr Glu Ala Leu
260 265 270

Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr Leu Ala Leu
275 280 285

Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala Val Val Arg
290 295 300

Ser Gly Asp Met Ala Pro Val Ile Arg Tyr
305 310

<210> 43
<211> 957
<212> DNA
<213> Herpes Virus

<400> 43
atgctggcgg acggctttga aactgacatc gcgataccct cgggcatctc gcgccccgat 60
gcggcggcgc tgcagcgctg cgaaggcggc gtgggtattcc tgccgaccat ccgccggcaa 120
ctgacgctgg ccgacgtggc gcacgaatcc ttctgtctccg gaggcgtcag tcccgcacacg 180
ttggggttgt tgcctggcgt ccgaaggcgc ttccccgcgg tcatcaccgc ggtgcttccc 240
acgcgaatcg tcgcctgccc cctggacgtg ggcctcacc acgccggcac cgtaaaccctt 300
cgcaacacct cccccgtaga tctctgtaac ggggacccca tcagcctcgt cccgcccgtg 360
ttcgagggcc aagcgacgga cgtgcgcctg gattcgctgg acctcacgtt gcggtttccc 420
gttcgcgttc catcgcccc ggcgcgcgaa atcgtggcgc ggctcgtggc caggggcatc 480
cgggacctga accccagccc cagaaacccc ggagggtgc cagacctcaa cgtgctgtac 540
tacaacggga gtcgcctctc gctgctggcg gacgtccaac aactcgggtc cgtaaacgcc 600
gagctgcgat cgctggtcct taacatggtt tactcgatca cggaggggaac caccatcatc 660
cttacgctaa tccccggct ctttgcgcta agtgcccagg acgggtacgt gaacgctcta 720
ctgcagatgc agagtgtcac gcgggaggcc gccagctca ttcaccccg agccccggcc 780
ctgatgcagg atggagagcg aaggctgccg ctttacgagg cgctcgtcgc ctggctgacc 840
cacgcgggcc aactaggaga caccttgccc ctggctcccc tggttcgggt gtgcaccttt 900
gacggcgcg cgttggtgcg gtccggagac atggcccccg ttatacgcta tccctaa 957

<210> 44
<211> 318
<212> PRT
<213> Herpes Virus

<400> 44
Met Leu Ala Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile
1 5 10 15

Ser Arg Pro Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val
20 25 30

Phe Leu Pro Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His
35 40 45

Glu Ser Phe Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu
50 55 60

Leu Ala Tyr Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro
65 70 75 80

Thr Arg Ile Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly
85 90 95

Thr Val Asn Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp
 100 105 110
 Pro Ile Ser Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val
 115 120 125
 Arg Leu Asp Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro
 130 135 140
 Ser Pro Leu Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile
 145 150 155 160
 Arg Asp Leu Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu
 165 170 175
 Asn Val Leu Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val
 180 185 190
 Gln Gln Leu Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn
 195 200 205
 Met Val Tyr Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile
 210 215 220
 Pro Arg Leu Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu
 225 230 235 240
 Leu Gln Met Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro
 245 250 255
 Glu Ala Pro Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr
 260 265 270
 Glu Ala Leu Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr
 275 280 285
 Leu Ala Leu Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala
 290 295 300
 Val Val Arg Ser Gly Asp Met Ala Pro Val Ile Arg Tyr Pro
 305 310 315

<210> 45

<211> 798

<212> DNA

<213> Herpes Virus

<400> 45

cctccgcca acaacaccga ctcgagttcc ctggtgccc gggcccagga ttccgccccg 60
 cccggcccca cgctaaggga gctgtggtgg gtgttttatg ccgcagaccg ggcgctggag 120
 gagcccccg ccgactctgg cctcaccgcg gaggaggtac gtgccgtacg tgggttccgg 180
 gacgaggcgt ggaaactggt tggctccgcg ggggccccgc gggcgtttat cggggcccg 240
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 cgctgtccc ccttccccgc gctagtccgg ctgtaggcc ggtacacaca ggcaccggc 360
 ctgtacgtcc ctcggcccga cgaccagtc ttggccgatg ccatcaacgg gctgtttcgc 420
 gacgcgctgg cggccggaac cacagccgag cagctcctca tgttcgacct tctccccca 480
 aaggacgtgc cgggtggaag cgacgtgcag gccgacagca ccgctctgct gcgctttata 540
 gaatcgcaac gtctcgccgt ccccggggg gtgatctccc ccgagcacgt cgcgtacctt 600
 ggtgcgttcc tgagcgtgct gtacgtggc cgcgggcgca tgtccgcagc cagcacacc 660

gcgcggctga caggggtgac ctccctgggtg ctagcggtgg gtgacgtgga ccgtctttcc 720
gcgtttgacc gggagcggc gggcgcgcc agcgcacgc gggccgcgg gtacctggat 780
gtgcttctta ccgttcgt 798

<210> 46
<211> 266
<212> PRT
<213> Herpes Virus

<400> 46
Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro Gly Ala Gln
1 5 10 15
Asp Ser Ala Pro Pro Gly Pro Thr Leu Arg Glu Leu Trp Trp Val Phe
20 25 30
Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp Ser Gly Leu
35 40 45
Thr Arg Glu Glu Val Arg Ala Val Arg Gly Phe Arg Glu Gln Ala Trp
50 55 60
Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile Gly Ala Ala
65 70 75 80
Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr Tyr Ile Ile
85 90 95
His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val Arg Leu Val
100 105 110
Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg Pro Asp Asp
115 120 125
Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp Ala Leu Ala
130 135 140
Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu Leu Pro Pro
145 150 155 160
Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser Thr Ala Leu
165 170 175
Leu Arg Phe Ile Glu Ser Gln Arg Leu Ala Val Pro Gly Gly Val Ile
180 185 190
Ser Pro Glu His Val Ala Tyr Leu Gly Ala Phe Leu Ser Val Leu Tyr
195 200 205
Ala Gly Arg Gly Arg Met Ser Ala Ala Thr His Thr Ala Arg Leu Thr
210 215 220
Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp Arg Leu Ser
225 230 235 240
Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr Arg Ala Ala
245 250 255
Gly Tyr Leu Asp Val Leu Leu Thr Val Arg
260 265

<210> 47
 <211> 1608
 <212> DNA
 <213> Herpes Virus

<400> 47
 atggagctta gctacgccac caccatgcac tacggggacg ttgtgtttta cgtcacaacg 60
 gaccgaaacc gggcctactt tgtgtgcggg ggggtgtgtt attccgtggg gcggccgtgt 120
 gcctcgcagc ccggggagat tgccaagttt ggtctggtcg ttcgagggac aggccagac 180
 gaccgcgtgg tcgccaacta tgtacgaagc gagctccgac aacgcggcct gcaggacgtg 240
 cgtcccattg gggaggacga ggtgtttctg gacagcgtgt gtcttctaaa cccgaacgtg 300
 agctccgagc tggatgtgat taacacgaac gacgtggaag tgctggacga atgtctggcc 360
 gagtactgca cctcgtcgcg aaccagcccg ggtgtgctaa tatccgggct gcgcgtgcgg 420
 gcgcaggaca gaatcatcga gttgtttgaa caccacacga tagtcaacgt ttcctcgcac 480
 tttgtgtata ccccgcccc atacgtgttc gccctggccc aggcgcacct ccccggtc 540
 ccgagctcgc tggaggccct ggtgagcggc ctgtttgacg gcatccccgc cccacgccag 600
 ccacttgacg cccacaaccc gcgcacggat gtggttatca cgggccgcgc cgccccacga 660
 cccatcgccg ggtcgggggc ggggtcgggg ggcgcggggc ccaagcgggc caccgtcagc 720
 gagttcgtgc aagtcaaaca cattgaccgc gtgggccccg ctggcgtttc gccggcgcc 780
 ccgccaacaa acaccgactc gagttccctg gtgcccgggg ccaggattc cgccccgcc 840
 ggccccacgc taaggagct gtggtgggtg ttttatgccg cagaccgggc gctggaggag 900
 ccccgccgcg actctggcct caccgcgcag gaggtacgtg ccgtacgtgg gttccgggag 960
 caggcggtga aactgtttgg ctccgcgggg gccccgcggg cgtttatcgg ggccgcgttg 1020
 ggcttgagcc cctccaaaa gctagccgtt tactactata tcatccaccg agagaggcgc 1080
 ctgtccccct tccccgcgt agtccggctc gtaggcgggt acacacagcg ccacggcctg 1140
 tacgtccctc ggcccgacga cccagtcttg gccgatgcca tcaacgggct gtttcgcgac 1200
 gcgtggcgcg ccggaaccac agccgagcag ctctcatgt tcgaccttct cccccaaag 1260
 gacgtgccgg tgggaagcga cgtgcaggcc gacagcaccg ctctgctgcg ctttatagaa 1320
 tcgcaacgtc tcgcccgtcc cggggggggtg atctcccccg agcacgtcgc gtaccttggt 1380
 gcgttcctga gcgtgctgta cgctggccgc gggcgcatgt ccgcagccac gcacaccgcg 1440
 cggtgacag gggtagacct cctggtgcta gcggtgggtg acgtggaccg tctttccgcg 1500
 tttgaccgcg gagcggcggg cgcgccacgc cgcacgcggg ccgccgggta cctggatgtg 1560
 cttcttaccg ttcgtctcgc tcgctcccaa caccgacagt ctgtgtaa 1608

<210> 48
 <211> 535
 <212> PRT
 <213> Herpes Virus

<400> 48
 Met Glu Leu Ser Tyr Ala Thr Thr Met His Tyr Arg Asp Val Val Phe
 1 5 10 15
 Tyr Val Thr Thr Asp Arg Asn Arg Ala Tyr Phe Val Cys Gly Gly Cys
 20 25 30
 Val Tyr Ser Val Gly Arg Pro Cys Ala Ser Gln Pro Gly Glu Ile Ala
 35 40 45
 Lys Phe Gly Leu Val Val Arg Gly Thr Gly Pro Asp Asp Arg Val Val
 50 55 60
 Ala Asn Tyr Val Arg Ser Glu Leu Arg Gln Arg Gly Leu Gln Asp Val
 65 70 75 80
 Arg Pro Ile Gly Glu Asp Glu Val Phe Leu Asp Ser Val Cys Leu Leu
 85 90 95

Asn Pro Asn Val Ser Ser Glu Leu Asp Val Ile Asn Thr Asn Asp Val
 100 105 110
 Glu Val Leu Asp Glu Cys Leu Ala Glu Tyr Cys Thr Ser Leu Arg Thr
 115 120 125
 Ser Pro Gly Val Leu Ile Ser Gly Leu Arg Val Arg Ala Gln Asp Arg
 130 135 140
 Ile Ile Glu Leu Phe Glu His Pro Thr Ile Val Asn Val Ser Ser His
 145 150 155 160
 Phe Val Tyr Thr Pro Ser Pro Tyr Val Phe Ala Leu Ala Gln Ala His
 165 170 175
 Leu Pro Arg Leu Pro Ser Ser Leu Glu Ala Leu Val Ser Gly Leu Phe
 180 185 190
 Asp Gly Ile Pro Ala Pro Arg Gln Pro Leu Asp Ala His Asn Pro Arg
 195 200 205
 Thr Asp Val Val Ile Thr Gly Arg Arg Ala Pro Arg Pro Ile Ala Gly
 210 215 220
 Ser Gly Ala Gly Ser Gly Gly Ala Gly Ala Lys Arg Ala Thr Val Ser
 225 230 235 240
 Glu Phe Val Gln Val Lys His Ile Asp Arg Val Gly Pro Ala Gly Val
 245 250 255
 Ser Pro Ala Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro
 260 265 270
 Gly Ala Gln Asp Ser Ala Pro Pro Gly Pro Thr Leu Arg Glu Leu Trp
 275 280 285
 Trp Val Phe Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp
 290 295 300
 Ser Gly Leu Thr Arg Glu Glu Val Arg Ala Val Arg Gly Phe Arg Glu
 305 310 315 320
 Gln Ala Trp Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile
 325 330 335
 Gly Ala Ala Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr
 340 345 350
 Tyr Ile Ile His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val
 355 360 365
 Arg Leu Val Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg
 370 375 380
 Pro Asp Asp Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp
 385 390 395 400
 Ala Leu Ala Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu
 405 410 415
 Leu Pro Pro Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser

420 425 430
 Thr Ala Leu Leu Arg Phe Ile Glu Ser Gln Arg Leu Ala Val Pro Gly
 435 440 445
 Gly Val Ile Ser Pro Glu His Val Ala Tyr Leu Gly Ala Phe Leu Ser
 450 455 460
 Val Leu Tyr Ala Gly Arg Gly Arg Met Ser Ala Ala Thr His Thr Ala
 465 470 475 480
 Arg Leu Thr Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp
 485 490 495
 Arg Leu Ser Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr
 500 505 510
 Arg Ala Ala Gly Tyr Leu Asp Val Leu Leu Thr Val Arg Leu Ala Arg
 515 520 525
 Ser Gln His Gly Gln Ser Val
 530 535

<210> 49
 <211> 834
 <212> DNA
 <213> Herpes Virus

<400> 49
 gattcccgaa acttcatcac ccccgagttc ccccgggact tttggatgtc gcccgctctt 60
 aacctcccc gggagacggc ggcggagcag gtggtcgtcc tacaggccca gcgcacagcg 120
 gctgccgctg ccctggagaa cgccgccatg caggcgggcg agctccccgt cgatatcgag 180
 cgccgggttac gcccgatcga acggaacgtg cagcagatcg caggcgccct ggagggcgctg 240
 gagacggcgg cgcccgccgc cgaagaggcg gatgccgcgc gcggggatga gccggcgggg 300
 gggggcgacg gggggcgcc cccgggtctg gccgtcgcg agatggaggt ccagatcggtg 360
 cgcaacgacc cgccgctacg atacgacacc aacctcccc tggatctgct acacatgggtg 420
 tacgcggggc gcggggcgac cggctcgtcg ggggtggtgt tcgggacctg gtaccgcact 480
 atccaggacc gcaccatcac ggactttccc ctgaccacc gcagtgccga ctttcggggac 540
 ggccgtatgt ccaagacctt catgacggcg ctggtactgt ccctgcaggc gtgcggcccg 600
 ctgtatgtgg gccagcgcca ctattccgcc ttcgagtgcg ccgtgttgtg tctctacctg 660
 ctgtaccgaa acacgcacgg ggccgcccag gatagcgacc gcgtccgggt cacgttcggg 720
 gatctgctgg gccggctgcc ccgctacctg gcgtgcctgg ccgcgggtgat cgggaccgag 780
 ggcgggccggc cacagtaccg ctaccgcgac gacaagctcc ccaagacgca gttc 834

<210> 50
 <211> 278
 <212> PRT
 <213> Herpes Virus

<400> 50
 Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro Arg Asp Phe Trp Met
 1 5 10 15
 Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala Ala Glu Gln Val Val
 20 25 30
 Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala Ala Leu Glu Asn Ala
 35 40 45

Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile Glu Arg Arg Leu Arg
 50 55 60
 Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly Ala Leu Glu Ala Leu
 65 70 75 80
 Glu Thr Ala Ala Ala Ala Glu Glu Ala Asp Ala Ala Arg Gly Asp
 85 90 95
 Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro Pro Gly Leu Ala Val
 100 105 110
 Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp Pro Pro Leu Arg Tyr
 115 120 125
 Asp Thr Asn Leu Pro Val Asp Leu Leu His Met Val Tyr Ala Gly Arg
 130 135 140
 Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly Thr Trp Tyr Arg Thr
 145 150 155 160
 Ile Gln Asp Arg Thr Ile Thr Asp Phe Pro Leu Thr Thr Arg Ser Ala
 165 170 175
 Asp Phe Arg Asp Gly Arg Met Ser Lys Thr Phe Met Thr Ala Leu Val
 180 185 190
 Leu Ser Leu Gln Ala Cys Gly Arg Leu Tyr Val Gly Gln Arg His Tyr
 195 200 205
 Ser Ala Phe Glu Cys Ala Val Leu Cys Leu Tyr Leu Leu Tyr Arg Asn
 210 215 220
 Thr His Gly Ala Ala Asp Asp Ser Asp Arg Ala Pro Val Thr Phe Gly
 225 230 235 240
 Asp Leu Leu Gly Arg Leu Pro Arg Tyr Leu Ala Cys Leu Ala Ala Val
 245 250 255
 Ile Gly Thr Glu Gly Gly Arg Pro Gln Tyr Arg Tyr Arg Asp Asp Lys
 260 265 270
 Leu Pro Lys Thr Gln Phe
 275

<210> 51
 <211> 1743
 <212> DNA
 <213> Herpes Virus

<400> 51
 atggaccggt actgcccatt tgacgctctg gacgtctggg aacacaggcg cttcatagtc 60
 gccgattccc gaaacttcat ccccccgag ttccccggg acttttggat gtcgcccgtc 120
 ttttaacctcc cccgggagac ggcggcgag caggtggtcg tcctacaggc ccagcgacaca 180
 gcggtgccc ctgccctgga gaacgcccgc atgcaggcgg ccgagctccc cgtcgatatc 240
 gagcgccggt tacgcccgat cgaacggaac gtgcacgaga tcgcaggcgc cctggaggcg 300
 ctggagacgg cggcggccgc cgccgaagag gcggtatgcc cgcgcgggga tgagccggcg 360
 ggtggggggc acgggggggc gccccgggt ctggccgtcg cggagatgga ggtccagatc 420
 gtgcgcaacg acccgccgt acgatacgac accaacctcc ccgtggatct gctacacatg 480
 gtgtacgcgg gcccggggc gaccggctcg tcgggggtgg tggtcgggac ctggtaccgc 540

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actatccagg accgcacccat cacggacttt cccctgacca cccgcagtgc cgacttttcgg 600
gacggcccgta tgtccaagac cttcatgacg gcgctggtac tgtccctgca ggcggtgcggc 660
cggtctgtatg tgggccagcg ccactattcc gccttcgagt gcgccgtgtt gtgtctctac 720
ctgctgtacc gaaacacgca cggggccgcc gacgatagcg accgcgctcc gggtcacgttc 780
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gagggcggcc ggccacagta ccgctaccgc gacgacaagc tccccaagac gcagttcgcg 900
gccggcgggg gccgctacga acacggagcg ctggcgctcg acatcgtgat cgccacgctg 960
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gttaaccccc acggcgtggc gcaccacgac gacataaacc gcgccgccgc cgcgttcctc 1080
agccggggcc acaacctatt cctgtgggag gaccagactc tgctgcgggc aaccgcgaac 1140
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ctcaccgccc tggaaactcat caaccgcacc cgcacaaacc ccacccctgt gggggaggtt 1560
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gactacgaca tggtgtactt tttatgtctg ggggttcattc cacagtacct gtcggcggtt 1740
tag 1743

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<210> 52
<211> 580
<212> PRT
<213> Herpes Virus

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<400> 52
Met Asp Pro Tyr Cys Pro Phe Asp Ala Leu Asp Val Trp Glu His Arg
 1             5             10             15

Arg Phe Ile Val Ala Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro
      20             25             30

Arg Asp Phe Trp Met Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala
      35             40             45

Ala Glu Gln Val Val Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala
      50             55             60

Ala Leu Glu Asn Ala Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile
      65             70             75             80

Glu Arg Arg Leu Arg Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly
      85             90             95

Ala Leu Glu Ala Leu Glu Thr Ala Ala Ala Ala Ala Glu Glu Ala Asp
      100            105            110

Ala Ala Arg Gly Asp Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro
      115            120            125

Pro Gly Leu Ala Val Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp
      130            135            140

Pro Pro Leu Arg Tyr Asp Thr Asn Leu Pro Val Asp Leu Leu His Met
      145            150            155            160

Val Tyr Ala Gly Arg Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly
      165            170            175

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Thr Trp Tyr Arg Thr Ile Gln Asp Arg Thr Ile Thr Asp Phe Pro Leu
 180 185 190
 Thr Thr Arg Ser Ala Asp Phe Arg Asp Gly Arg Met Ser Lys Thr Phe
 195 200 205
 Met Thr Ala Leu Val Leu Ser Leu Gln Ala Cys Gly Arg Leu Tyr Val
 210 215 220
 Gly Gln Arg His Tyr Ser Ala Phe Glu Cys Ala Val Leu Cys Leu Tyr
 225 230 235 240
 Leu Leu Tyr Arg Asn Thr His Gly Ala Ala Asp Asp Ser Asp Arg Ala
 245 250 255
 Pro Val Thr Phe Gly Asp Leu Leu Gly Arg Leu Pro Arg Tyr Leu Ala
 260 265 270
 Cys Leu Ala Ala Val Ile Gly Thr Glu Gly Gly Arg Pro Gln Tyr Arg
 275 280 285
 Tyr Arg Asp Asp Lys Leu Pro Lys Thr Gln Phe Ala Ala Gly Gly Gly
 290 295 300
 Arg Tyr Glu His Gly Ala Leu Ala Ser His Ile Val Ile Ala Thr Leu
 305 310 315 320
 Met His His Gly Val Leu Pro Ala Ala Pro Gly Asp Val Pro Arg Asp
 325 330 335
 Ala Ser Thr His Val Asn Pro Asp Gly Val Ala His His Asp Asp Ile
 340 345 350
 Asn Arg Ala Ala Ala Phe Leu Ser Arg Gly His Asn Leu Phe Leu
 355 360 365
 Trp Glu Asp Gln Thr Leu Leu Arg Ala Thr Ala Asn Thr Ile Thr Ala
 370 375 380
 Leu Gly Val Ile Gln Arg Leu Leu Ala Asn Gly Asn Val Tyr Ala Asp
 385 390 395 400
 Arg Leu Asn Asn Arg Leu Gln Leu Gly Met Leu Ile Pro Gly Ala Val
 405 410 415
 Pro Ser Glu Ala Ile Ala Arg Gly Ala Ser Gly Ser Asp Ser Gly Ala
 420 425 430
 Ile Lys Ser Gly Asp Asn Asn Leu Glu Ala Leu Cys Ala Asn Tyr Val
 435 440 445
 Leu Pro Leu Tyr Arg Ala Asp Pro Ala Val Glu Leu Thr Gln Leu Phe
 450 455 460
 Pro Gly Leu Ala Ala Leu Cys Leu Asp Ala Gln Ala Gly Arg Pro Val
 465 470 475 480
 Gly Ser Thr Arg Arg Val Val Asp Met Ser Ser Gly Ala Arg Gln Ala
 485 490 495

Ala Leu Val Arg Leu Thr Ala Leu Glu Leu Ile Asn Arg Thr Arg Thr
500 505 510

Asn Pro Thr Pro Val Gly Glu Val Ile His Ala His Asp Ala Leu Ala
515 520 525

Ile Gln Tyr Glu Gln Gly Leu Gly Leu Leu Ala Gln Gln Ala Arg Ile
530 535 540

Gly Leu Gly Ser Asn Thr Lys Arg Phe Ser Ala Phe Asn Val Ser Ser
545 550 555 560

Asp Tyr Asp Met Leu Tyr Phe Leu Cys Leu Gly Phe Ile Pro Gln Tyr
565 570 575

Leu Ser Ala Val
580

<210> 53
<211> 683
<212> DNA
<213> Herpes Virus

<400> 53
gtgtaccggt acgacgagtt tgtgttggcg actggcgact ttgtgtacat gtccccgttt 60
tacggctacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 120
caggtcgacg gcttctacgc gcgcgacctc accaccaagg ccggggccac ggcgccgacc 180
acccggaacc tgetcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 240
ccgtcgggtc gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 300
ggcggctcct tccgattctc ttccgacgcc atatccacca ccttcaccac caacctgacc 360
gagtaccgcg tctcgcgcgt ggacctgggg gactgcatcg gcaaggacgc ccgcgacgcc 420
atggaccgca tcttcgcccg caggtacaac gcgacgcaca tcaaggtggg ccagccgcag 480
tactacctgg ccaatggggg ctttctgacg gcgtaccagc cccttctcag caacacgctc 540
gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagcccc aaacccccacg 600
ccccgccgcg ccggggccag cgccaacgcg tccgtggagc gcatcaagac cacctcctcc 660
atcgagttcg ccaggctgca gtt 683

<210> 54
<211> 227
<212> PRT
<213> Herpes Virus

<400> 54
Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp Phe Val Tyr
1 5 10 15

Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
20 25 30

Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe Tyr Ala Arg
35 40 45

Asp Leu Thr Thr Lys Ala Arg Ala Thr Ala Pro Thr Thr Arg Asn Leu
50 55 60

Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val Pro Lys Arg
65 70 75 80

Pro Ser Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp Glu Met Leu

	85		90		95
Arg Ser Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp Ala Ile Ser					
	100		105		110
Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Pro Leu Ser Arg Val Asp					
	115		120		125
Leu Gly Asp Cys Ile Gly Lys Asp Ala Arg Asp Ala Met Asp Arg Ile					
	130		135		140
Phe Ala Arg Arg Tyr Asn Ala Thr His Ile Lys Val Gly Gln Pro Gln					
	145		150		155
Tyr Tyr Leu Ala Asn Gly Gly Phe Leu Ile Ala Tyr Gln Pro Leu Leu					
		165	170		175
Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu His Leu Arg Glu Gln					
	180		185		190
Ser Arg Lys Pro Pro Asn Pro Thr Pro Pro Pro Pro Gly Ala Ser Ala					
	195		200		205
Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser Ser Ile Glu Phe Ala					
	210		215		220
Arg Leu Gln					
225					

<210> 55
 <211> 2715
 <212> DNA
 <213> Herpes Virus

<400> 55
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 ttgacgtcgg gggtcctggt ggcgctcgcg gctccgagtt cccccggcac gcctgggggc 120
 gcggcccgga ccagggcggc gaacgggggc cctgccactc cggcgccgcc cgccccctggc 180
 gcccccccaa cgggggaccc gaaaccgaag aagaacagaa aaccgaaacc cccaaagccg 240
 ccgcgccccg ccggcgacaa cgcgaccgtc gccgcgggcc acgccaccct gcgcgagcac 300
 ctgcgggaca tcaaggcgga gaacaccgat gcaaaacttt acgtgtgccc accccccacg 360
 ggcgccacgg tgggtgcagt cgagcagccg cgccgctgcc cgaccggcc cgaggggtcag 420
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 gccaccatgt actacaaaga cgtcaccgtt tcgcaggtgt ggttcggcca ccgctactcc 540
 cagtttatgg ggatctttga ggaccgcgc cccgtcccct tcgaggaggt gatcgacaag 600
 atcaacgcca agggggtctg tcgggtccacg gccaaagtacg tgcgcaacaa cctggagacc 660
 accgcgtttc accgggacga ccacgagacc gacatggagc tgaaaccggc caacgccgcg 720
 accgcacga gccggggctg gcacaccacc gacctcaagt acaaccctc gcgggtggag 780
 gcgttccacc ggtacgggac gacggtaaac tgcacgtcg aggaggtgga cgcgcgctcg 840
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 tacgggtacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 960
 caggctcgacg gcttctacgc gcgcgacctc accaccaagg cccggggccac ggcgccgacc 1020
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 ccgtcggctc gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 1140
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 gagtaccgcg tctcgcgctg ggacctgggg gactgcacgc gcaaggacgc ccgcgacgcc 1260
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 gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagcccc aaacccccacg 1440
 cccccgccgc ccggggccag cgccaacgcg tccgtggagc gcacaaagac cacctcctcc 1500

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atcgagttcg ccaggctgca gtttacgtac aaccacatac agcgccatgt caacgatatg 1560
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ttcaccttcg gtgggggcta cgtgtacttc gaggagtacg cgtactccca ccagctgagc 1980
cgcgccgaca tcaccaccgt cagcaccttc atcgacctca acatcaccat gctggaggat 2040
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cacaaggcca agaagaaggg cagagcgcg ctgctcagcg ccaaggtcac cgacatggtc 2640
atgcgcaagc gccgcaacac caactacacc caagttccca acaaagacgg tgacgccgac 2700
gaggacgacc tgtga 2715

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<210> 56
 <211> 904
 <212> PRT
 <213> Herpes Virus

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<400> 56
Met Arg Gln Gly Ala Pro Ala Arg Gly Cys Arg Trp Phe Val Val Trp
  1             5             10             15

Ala Leu Leu Gly Leu Thr Leu Gly Val Leu Val Ala Ser Ala Ala Pro
  20             25             30

Ser Ser Pro Gly Thr Pro Gly Val Ala Ala Ala Thr Gln Ala Ala Asn
  35             40             45

Gly Gly Pro Ala Thr Pro Ala Pro Pro Ala Leu Gly Ala Ala Pro Thr
  50             55             60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
  65             70             75             80

Pro Arg Pro Ala Gly Asp Asn Ala Thr Val Ala Ala Gly His Ala Thr
  85             90             95

Leu Arg Glu His Leu Arg Asp Ile Lys Ala Glu Asn Thr Asp Ala Asn
  100            105            110

Phe Tyr Val Cys Pro Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu
  115            120            125

Gln Pro Arg Arg Cys Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu
  130            135            140

Gly Ile Ala Val Val Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys
  145            150            155            160

Ala Thr Met Tyr Tyr Lys Asp Val Thr Val Ser Gln Val Trp Phe Gly
  165            170            175

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His Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val
 180 185 190
 Pro Phe Glu Glu Val Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg
 195 200 205
 Ser Thr Ala Lys Tyr Val Arg Asn Asn Leu Glu Thr Thr Ala Phe His
 210 215 220
 Arg Asp Asp His Glu Thr Asp Met Glu Leu Lys Pro Ala Asn Ala Ala
 225 230 235 240
 Thr Arg Thr Ser Arg Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro
 245 250 255
 Ser Arg Val Glu Ala Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile
 260 265 270
 Val Glu Glu Val Asp Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val
 275 280 285
 Leu Ala Thr Gly Asp Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg
 290 295 300
 Glu Gly Ser His Thr Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys
 305 310 315 320
 Gln Val Asp Gly Phe Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala
 325 330 335
 Thr Ala Pro Thr Thr Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val
 340 345 350
 Ala Trp Asp Trp Val Pro Lys Arg Pro Ser Val Cys Thr Met Thr Lys
 355 360 365
 Trp Gln Glu Val Asp Glu Met Leu Arg Ser Glu Tyr Gly Gly Ser Phe
 370 375 380
 Arg Phe Ser Ser Asp Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr
 385 390 395 400
 Glu Tyr Pro Leu Ser Arg Val Asp Leu Gly Asp Cys Ile Gly Lys Asp
 405 410 415
 Ala Arg Asp Ala Met Asp Arg Ile Phe Ala Arg Arg Tyr Asn Ala Thr
 420 425 430
 His Ile Lys Val Gly Gln Pro Gln Tyr Tyr Leu Ala Asn Gly Gly Phe
 435 440 445
 Leu Ile Ala Tyr Gln Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr
 450 455 460
 Val Arg Glu His Leu Arg Glu Gln Ser Arg Lys Pro Pro Asn Pro Thr
 465 470 475 480
 Pro Pro Pro Pro Gly Ala Ser Ala Asn Ala Ser Val Glu Arg Ile Lys
 485 490 495

Thr Thr Ser Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His
 500 505 510
 Ile Gln Arg His Val Asn Asp Met Leu Gly Arg Val Ala Ile Ala Trp
 515 520 525
 Cys Glu Leu Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys
 530 535 540
 Leu Asn Pro Asn Ala Ile Ala Ser Ala Thr Val Gly Arg Arg Val Ser
 545 550 555 560
 Ala Arg Met Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val
 565 570 575
 Ala Ala Asp Asn Val Ile Val Gln Asn Ser Met Arg Ile Ser Ser Arg
 580 585 590
 Pro Gly Ala Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp
 595 600 605
 Gln Gly Pro Leu Val Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg
 610 615 620
 Leu Thr Arg Asp Ala Ile Glu Pro Cys Thr Val Gly His Arg Arg Tyr
 625 630 635 640
 Phe Thr Phe Gly Gly Gly Tyr Val Tyr Phe Glu Glu Ser Ala Tyr Ser
 645 650 655
 His Gln Leu Ser Arg Ala Asp Ile Thr Thr Val Ser Thr Phe Ile Asp
 660 665 670
 Leu Asn Ile Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val
 675 680 685
 Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu
 690 695 700
 Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp
 705 710 715 720
 Thr Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly
 725 730 735
 Ala Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val
 740 745 750
 Val Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser
 755 760 765
 Ser Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val
 770 775 780
 Leu Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg
 785 790 795 800
 Leu Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu
 805 810 815
 Leu Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly

820	825	830
Gly Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg		
835	840	845
Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys		
850	855	860
Lys Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys Val Thr Asp Met Val		
865	870	880
Met Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln Val Pro Asn Lys Asp		
885	890	895
Gly Asp Ala Asp Glu Asp Asp Leu		
900		

<210> 57
 <211> 1814
 <212> DNA
 <213> Herpes Virus

<400> 57

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tatcaccaac	gggtcaggct	ggatacgtat	ggcgggaccg	tccatatgga	gctgtgtttc	180
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cgcggcgcca	cgcgcgcgct	ggagcgcgtt	cgaggagtta	tggtgggggc	ggtgggggtc	300
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gaactgtgtg	tgacggcgaa	ccagggggcg	acgatcgccc	gcgcctggc	ggaccgtatc	420
tgtaaccacg	tcacccagca	ggcgcagggt	cggtcggacg	ccaacgagct	gcggcgggtac	480
ctgccccacg	cgcgcgggct	gtcggacgcc	gaccgcgcgc	gggcgctctc	cgtgttggac	540
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tcggtccgca	aggaggccga	cgccctgctg	gaggcgcacg	acgtgtttca	ggccaccacg	660
ccgggcctgt	acgccatcag	cgaattgcga	ttctggctcg	cgteccggca	ccgcgcgggc	720
cagaccacca	tggacgcgtt	tgccagcaac	ctgaccgcgc	tggcgcggcg	cgagttgcag	780
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gatcgcgcgt	tcgggagcca	cctggcggcg	ctggatatgg	tggaagccct	aataatcggc	900
ggtcaggcca	cgtcaccgca	cgatcagatc	gaggcgctca	tccgcgcgtg	ctacgaccac	960
cacctgacga	cgcgcgtctt	gcggcgccct	gtcagccccc	aacagtgcga	cgaggaggcg	1020
ctgcgtcgcg	tgctggcgcg	catggggggc	ggggggcgcg	cggacgcgcc	caaggggggc	1080
gcggggcccc	acgacgacgg	ggaccgtgtc	gccgtagagg	aaggggcacg	ggggttggga	1140
gctcccgggg	gcggggggcg	ggacgaagac	cgtegcgcgc	ggcccggggg	gcagggggccc	1200
gagacgtggg	gggacatcgc	cacgcaagcg	gccgcggacg	tgccgggagc	acggcggctg	1260
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cgagcgtctc	tcctgcgaca	ccaggtggac	ccggccctgc	ttcccagcat	cacccatcgc	1560
ttcttcgagc	tcgtcaacgg	gcccctcttt	gatcactcca	cccacagctt	cgcccagccc	1620
cccaacaccg	cgctgtatta	cagcgtcgag	aacgtggggc	tcctgccgca	cctgaaggag	1680
gagctcgccc	ggttcatcat	gggggcgggg	ggctcgggtg	ctgattgggc	cgtcagcgaa	1740
tttcagaggt	tttactgttt	tgacggcatt	tccggaataa	cgccactca	gcgcgcgcgc	1800
tggcgatata	ttcg					1814

<210> 58
 <211> 604
 <212> PRT
 <213> Herpes Virus

<400> 58
 Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu
 1 5 10 15
 Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr Glu Thr
 20 25 30
 Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg Leu Asp
 35 40 45
 Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His Asp Val
 50 55 60
 Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr Pro Ser
 65 70 75 80
 Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met Val Gly
 85 90 95
 Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp Pro Ser
 100 105 110
 His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala Asn Gln
 115 120 125
 Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn His Val
 130 135 140
 Thr Gln Gln Ala Gln Val Arg Leu Asp Ala Asn Glu Leu Arg Arg Tyr
 145 150 155 160
 Leu Pro His Ala Ala Gly Leu Ser Asp Ala Asp Arg Ala Arg Ala Leu
 165 170 175
 Ser Val Leu Asp His Ala Leu Ala Arg Thr Ala Gly Gly Asp Gly Gln
 180 185 190
 Pro His Pro Ser Pro Glu Asn Asp Ser Val Arg Lys Glu Ala Asp Ala
 195 200 205
 Leu Leu Glu Ala His Asp Val Phe Gln Ala Thr Thr Pro Gly Leu Tyr
 210 215 220
 Ala Ile Ser Glu Leu Arg Phe Trp Leu Ala Ser Gly Asp Arg Ala Gly
 225 230 235 240
 Gln Thr Thr Met Asp Ala Phe Ala Ser Asn Leu Thr Ala Leu Ala Arg
 245 250 255
 Arg Glu Leu Gln Gln Glu Thr Ala Ala Val Ala Val Glu Leu Ala Leu
 260 265 270
 Phe Gly Arg Arg Ala Glu His Phe Asp Arg Ala Phe Gly Ser His Leu
 275 280 285
 Ala Ala Leu Asp Met Val Asp Ala Leu Ile Ile Gly Gly Gln Ala Thr
 290 295 300
 Ser Pro Asp Asp Gln Ile Glu Ala Leu Ile Arg Ala Cys Tyr Asp His
 305 310 315 320

His Leu Thr Thr Pro Leu Leu Arg Arg Leu Val Ser Pro Glu Gln Cys
 325 330 335
 Asp Glu Glu Ala Leu Arg Arg Val Leu Ala Arg Met Gly Ala Gly Gly
 340 345 350
 Ala Ala Asp Ala Pro Lys Gly Gly Ala Gly Pro Asp Asp Asp Gly Asp
 355 360 365
 Arg Val Ala Val Glu Glu Gly Ala Arg Gly Leu Gly Ala Pro Gly Gly
 370 375 380
 Gly Gly Glu Asp Glu Asp Arg Arg Arg Gly Pro Gly Gly Gln Gly Pro
 385 390 395 400
 Glu Thr Trp Gly Asp Ile Ala Thr Gln Ala Ala Ala Asp Val Arg Glu
 405 410 415
 Arg Arg Arg Leu Tyr Ala Asp Arg Leu Thr Lys Arg Ser Leu Ala Ser
 420 425 430
 Leu Gly Arg Cys Val Arg Glu Gln Arg Gly Glu Leu Glu Lys Met Leu
 435 440 445
 Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala Ala Val
 450 455 460
 Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr Ala Gly
 465 470 475 480
 Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe Asp Ala
 485 490 495
 His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp Pro Ala
 500 505 510
 Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn Gly Pro
 515 520 525
 Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn Thr Ala
 530 535 540
 Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu Lys Glu
 545 550 555 560
 Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala Asp Trp
 565 570 575
 Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile Ser Gly
 580 585 590
 Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile
 595 600

<210> 59
 <211> 1068
 <212> DNA
 <213> Herpes Virus


```

<400> 59
tatgtgtttc agatagagct gctccggcgg tgcgaccccc acatcggacg ggggaagctc 60
ccccaaactga agctgaacgc gcttcagggtg cgggcgctgc ggcgtcgtct gaggccgggc 120
ctggaggccc aggccggggc ctttctcacc ccgctgtcgg tcaccctgga gttgctgcta 180
gagtacgcgt ggcgcgaggg cgagcggctc ctgggcagcc tggagacgtt cgcgaccgcg 240
ggagacgtcg cggcggtttt cacggagacc atgggcctgg cccgaccctg tccgtatcac 300
caacgggtca ggctggatac gtatggcggg accgtccata tggagctgtg tttcctgcac 360
gacgtcgaga actttctaaa gcagctaaac tactgccacc tcatcaccct ctcgcgcggc 420
gccaccgcgg cgctggagcg cgttcgggag tttatgggtg gggcggtggg gtcgggcctt 480
atcgtcccc cgagccttag cgaccgtcc caccctgcg cggctctgtt cgaggaactg 540
tgtgtgacgg cgaaccaggg ggcgacgatc gccgcgcgcc tggcggaccg tatctgtaac 600
cacgtcacc agcaggcgca ggtgcggtg gacgccaacg agctgcgcg gtacctgcc 660
cacgccgcg ggctgtcgg cgccgaccgc gcgcgggcgc tctccgtgtt ggaccatgcg 720
ctggcccgg cgcgggggg cgacgggcag cccacccgt cgcggagaa cgactcggtc 780
cgcaaggagg ccgacgcct gctggaggcg cagcaggtgt ttcaggccac cagccccggc 840
ctgtacgcca tcagcgaatt gcgattctgg ctgcgtccg gcgaccgcg cggccagacc 900
accatggacg cgtttgccag caacctgacc gcgctggcg ggcgcgagtt gcagcaggag 960
accgccgcg tggccgtgga actggcgctg ttcgggcggc gggcggagca tttcgatcgc 1020
gcgttcggga gccacctggc ggcgctggat atggtggacg ccctaata 1068

```

<210> 60

<211> 356

<212> PRT

<213> Herpes Virus

<400> 60

```

Tyr Val Phe Gln Ile Glu Leu Leu Arg Arg Cys Asp Pro His Ile Gly
  1             5             10             15

```

```

Arg Gly Lys Leu Pro Gln Leu Lys Leu Asn Ala Leu Gln Val Arg Ala
      20             25             30

```

```

Leu Arg Arg Arg Leu Arg Pro Gly Leu Glu Ala Gln Ala Gly Ala Phe
      35             40             45

```

```

Leu Thr Pro Leu Ser Val Thr Leu Glu Leu Leu Leu Glu Tyr Ala Trp
      50             55             60

```

```

Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu Glu Thr Phe Ala Thr Ala
      65             70             75             80

```

```

Gly Asp Val Ala Ala Phe Phe Thr Glu Thr Met Gly Leu Ala Arg Pro
      85             90             95

```

```

Cys Pro Tyr His Gln Arg Val Arg Leu Asp Thr Tyr Gly Gly Thr Val
     100             105             110

```

```

His Met Glu Leu Cys Phe Leu His Asp Val Glu Asn Phe Leu Lys Gln
     115             120             125

```

```

Leu Asn Tyr Cys His Leu Ile Thr Pro Ser Arg Gly Ala Thr Ala Ala
     130             135             140

```

```

Leu Glu Arg Val Arg Glu Phe Met Val Gly Ala Val Gly Ser Gly Leu
     145             150             155             160

```

```

Ile Val Pro Pro Glu Leu Ser Asp Pro Ser His Pro Cys Ala Val Cys
     165             170             175

```

```

Phe Glu Glu Leu Cys Val Thr Ala Asn Gln Gly Ala Thr Ile Ala Arg

```

180										185										190									
Arg	Leu	Ala	Asp	Arg	Ile	Cys	Asn	His	Val	Thr	Gln	Gln	Ala	Gln	Val														
		195					200					205																	
Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg	Arg	Tyr	Leu	Pro	His	Ala	Ala	Gly														
	210					215					220																		
Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg	Ala	Leu	Ser	Val	Leu	Asp	His	Ala														
	225				230					235				240															
Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp	Gly	Gln	Pro	His	Pro	Ser	Pro	Glu														
				245					250					255															
Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	Asp	Ala	Leu	Leu	Glu	Ala	His	Asp														
			260					265					270																
Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	Leu	Tyr	Ala	Ile	Ser	Glu	Leu	Arg														
		275					280					285																	
Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	Ala	Gly	Gln	Thr	Thr	Met	Asp	Ala														
	290					295					300																		
Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	Ala	Arg	Arg	Glu	Leu	Gln	Gln	Glu														
	305				310					315				320															
Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	Ala	Leu	Phe	Gly	Arg	Arg	Ala	Glu														
			325					330						335															
His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	His	Leu	Ala	Ala	Leu	Asp	Met	Val														
		340					345						350																
Asp	Ala	Leu	Ile																										
		355																											

<210> 61
 <211> 369
 <212> DNA
 <213> Herpes Virus

<400> 61
 gagaagatgc tgcgggtcag cgtccacggc gaggtgctgc ccgcgacgtt cgccgcgggtc 60
 gccaacggct ttgcggcgcg cgcgcgcttc tgcgccctga cggcggggcg gggcacgggtc 120
 atcgacaacc gtcggcgccc gggcgtgttc gacgcgcacc ggttcatgcg agcgtctctc 180
 ctgcgacacc aggtggaccc ggccctgctc cccagcatca cccatcgctt cttcgagctc 240
 gtcaacgggc ccctctttga tcactccacc cacagcttcg cccagccccc caacaccgcg 300
 ctgtattaca gcgtcgagaa cgtggggctc ctgccgcacc tgaaggagga gctcgcccgg 360
 ttcattcatg 369

<210> 62
 <211> 123
 <212> PRT
 <213> Herpes Virus

<400> 62
 Glu Lys Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr
 1 5 10 15
 Phe Ala Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala

	20		25		30
Leu Thr Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly					
	35		40		45
Val Phe Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln					
	50		55		60
Val Asp Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu					
	65		70		75
Val Asn Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro					
		85		90	95
Pro Asn Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro					
	100		105		110
His Leu Lys Glu Glu Leu Ala Arg Phe Ile Met					
	115		120		

<210> 63
 <211> 2358
 <212> DNA
 <213> Herpes Virus

<400> 63

atggccgccc	cggtgtccga	gcccaccgtg	gcccgtcaaa	agttgttagc	cctgctcggg	60
caggtgcaga	cctatgtgtt	tcagatagag	ctgctccggc	ggtgcgaccc	ccacatcgga	120
cgggggaagc	cccccaact	gaagctgaac	gcgcttcagg	tgcgggcgct	gcggcgctgt	180
ctgaggccgg	gcctggaggc	ccaggccggg	gcctttctca	ccccgctgtc	ggtcaccctg	240
gagttgctgc	tagagtacgc	gtggcgcgag	ggcgagcggc	tcctgggcag	cctggagacg	300
ttcgcgaccg	cgggagacgt	cgcggcgttt	ttcacggaga	ccatgggcct	ggcccgaacc	360
tgtccgtatc	accaacgggt	caggctggat	acgtatggcg	ggaccgtcca	tatggagctg	420
tgtttcctgc	acgacgtcga	gaactttcta	aagcagctaa	actactgcca	cctcatcacc	480
ccctcgcgcg	gcgccaccgc	cgcgctggag	cgcgcttcggg	agtttatggt	gggggcggtg	540
gggtcgggcc	ttatcgtccc	cccggagctt	agcgaccctg	cccaccctg	cgcggtctgt	600
ttcgaggaaac	tgtgtgtgac	ggcgaaccag	ggggcgacga	tcgcccggcg	cctggcggac	660
cgtatctgta	accacgtcac	ccagcaggcg	caggtgcggc	tgagcgccaa	cgagctgcgg	720
cggtacctgc	cccacgcgcg	cggtgtgtcg	gacgcgcacc	gcgcgcgggc	gctctccgtg	780
ttggaccatg	cgctggcccg	gaccgcgggg	ggcgacgggc	agccccacc	gtcgcccag	840
aacgactcgg	tcgcgaagga	ggccgacgcc	ctgctggagg	cgcacgacgt	gtttcaggcc	900
accacgcccg	gcctgtacgc	catcagcgaa	ttgcgattct	ggctcgcgtc	cggcgaccgc	960
gccggccaga	ccaccatgga	cgcgtttgcc	agcaacctga	ccgcgctggc	gcggcgcgag	1020
ttgcagcagg	agaccgccgc	ggtggccgtg	gaactggcgc	tgttcgggcg	gcgggcgagg	1080
catttcgatc	gcgcgttcgg	gagccacctg	gcggcgctgg	atatggtgga	cgccctaata	1140
atcggcggtc	agggcacgtc	accgcacgat	cagatcgagg	cgctcatccg	cgcggtgtac	1200
gaccaccacc	tgacgacgcc	gctcttgccg	cgctctgtca	gccccgaaca	gtgcgacgag	1260
gaggcgctgc	gtcgcgtgct	ggcgcgcatg	ggggcggggg	gcgcggcgga	cgcgcccaag	1320
ggcggcgcgg	gccccgacga	cgacggggac	cgtgtcgccg	tagaggaagg	ggcacggggg	1380
ttgggagctc	ccgggggccc	gggcgaggac	gaagaccgtc	gccgcgggcc	cggggggag	1440
gggcccagga	cgtgggggga	catcgccacg	caagcgcccg	cggacgtgcg	ggagcgacgg	1500
cggctgtacg	cggaccgcct	gacgaagcgg	tcgttgggca	gcctggggcg	ctgcgtccgc	1560
gagcagcgcg	gggagctcga	gaagatgctg	cgggtcagcg	tcacggcgga	ggtgtgccc	1620
gcgacgttcg	ccgcggctgc	caacggcttt	gcggcgcgcg	cgcgcttctg	gcgcttgacg	1680
gcgggcgcgg	gcacgggtcat	cgacaaccgc	tcggcgcccg	gcgtgttcga	cgcgaccagg	1740
ttcatgcgag	cgtctctcct	gcgacaccag	gtggaccggg	ccctgctccc	cagcatcacc	1800
catcgcttct	tcgagctcgt	caacggggccc	ctctttgatc	actccacca	cagcttcgcc	1860
cagcccccca	acaccgcgct	gtattacagc	gtcgagaacg	tggggctcct	gccgcacctg	1920
aaggaggagc	tcgcccgggt	catcatgggg	cgggggggct	cggtgtgctga	ttgggcccgc	1980
agcgaatttc	agagggtttta	ctgttttgac	ggcatttccg	gaataacgcc	cactcagcgc	2040

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gccgcctggc gatatatctg cgagctgatt atcgccacca cactctttgc ctcgggtctac 2100
cggcgcgggg agctcgagtt gcgccgcccg gactgcagcc gcccgacctc cgaaggctcgt 2160
taccgttacc cgcccggcgt atatctcacg tacgactccg actgtccgct ggtggccatc 2220
gtcgagagcg ccccgacggt ctgtatcggc ccccggtcgg tcgtgggtcta cgaccgagac 2280
gttttctcga tctctactc ggtcctccag cacctcgccc ccaggctacc tgacggggggg 2340
cacgacgggc ccccgtag                                     2358

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<210> 64
 <211> 785
 <212> PRT
 <213> Herpes Virus

```

<400> 64
Met Ala Ala Pro Val Ser Glu Pro Thr Val Ala Arg Gln Lys Leu Leu
  1              5              10              15

Ala Leu Leu Gly Gln Val Gln Thr Tyr Val Phe Gln Ile Glu Leu Leu
      20              25              30

Arg Arg Cys Asp Pro His Ile Gly Arg Gly Lys Leu Pro Gln Leu Lys
      35              40              45

Leu Asn Ala Leu Gln Val Arg Ala Leu Arg Arg Arg Leu Arg Pro Gly
      50              55              60

Leu Glu Ala Gln Ala Gly Ala Phe Leu Thr Pro Leu Ser Val Thr Leu
      65              70              75              80

Glu Leu Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly
      85              90              95

Ser Leu Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr
      100              105              110

Glu Thr Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg
      115              120              125

Leu Asp Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His
      130              135              140

Asp Val Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr
      145              150              155              160

Pro Ser Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met
      165              170              175

Val Gly Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp
      180              185              190

Pro Ser His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala
      195              200              205

Asn Gln Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn
      210              215              220

His Val Thr Gln Gln Ala Gln Val Arg Leu Asp Ala Asn Glu Leu Arg
      225              230              235              240

Arg Tyr Leu Pro His Ala Ala Gly Leu Ser Asp Ala Asp Arg Ala Arg
      245              250              255

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Ala Leu Ser Val Leu Asp His Ala Leu Ala Arg Thr Ala Gly Gly Asp
 260 265 270
 Gly Gln Pro His Pro Ser Pro Glu Asn Asp Ser Val Arg Lys Glu Ala
 275 280 285
 Asp Ala Leu Leu Glu Ala His Asp Val Phe Gln Ala Thr Thr Pro Gly
 290 295 300
 Leu Tyr Ala Ile Ser Glu Leu Arg Phe Trp Leu Ala Ser Gly Asp Arg
 305 310 315 320
 Ala Gly Gln Thr Thr Met Asp Ala Phe Ala Ser Asn Leu Thr Ala Leu
 325 330 335
 Ala Arg Arg Glu Leu Gln Gln Glu Thr Ala Ala Val Ala Val Glu Leu
 340 345 350
 Ala Leu Phe Gly Arg Arg Ala Glu His Phe Asp Arg Ala Phe Gly Ser
 355 360 365
 His Leu Ala Ala Leu Asp Met Val Asp Ala Leu Ile Ile Gly Gly Gln
 370 375 380
 Ala Thr Ser Pro Asp Asp Gln Ile Glu Ala Leu Ile Arg Ala Cys Tyr
 385 390 395 400
 Asp His His Leu Thr Thr Pro Leu Leu Arg Arg Leu Val Ser Pro Glu
 405 410 415
 Gln Cys Asp Glu Glu Ala Leu Arg Arg Val Leu Ala Arg Met Gly Ala
 420 425 430
 Gly Gly Ala Ala Asp Ala Pro Lys Gly Gly Ala Gly Pro Asp Asp Asp
 435 440 445
 Gly Asp Arg Val Ala Val Glu Glu Gly Ala Arg Gly Leu Gly Ala Pro
 450 455 460
 Gly Gly Gly Gly Glu Asp Glu Asp Arg Arg Arg Gly Pro Gly Gly Gln
 465 470 475 480
 Gly Pro Glu Thr Trp Gly Asp Ile Ala Thr Gln Ala Ala Ala Asp Val
 485 490 495
 Arg Glu Arg Arg Arg Leu Tyr Ala Asp Arg Leu Thr Lys Arg Ser Leu
 500 505 510
 Ala Ser Leu Gly Arg Cys Val Arg Glu Gln Arg Gly Glu Leu Glu Lys
 515 520 525
 Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala
 530 535 540
 Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr
 545 550 555 560
 Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe
 565 570 575

Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp
 580 585 590
 Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn
 595 600 605
 Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn
 610 615 620
 Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu
 625 630 635 640
 Lys Glu Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala
 645 650 655
 Asp Trp Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile
 660 665 670
 Ser Gly Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile Arg Glu
 675 680 685
 Leu Ile Ile Ala Thr Thr Leu Phe Ala Ser Val Tyr Arg Cys Gly Glu
 690 695 700
 Leu Glu Leu Arg Arg Pro Asp Cys Ser Arg Pro Thr Ser Glu Gly Arg
 705 710 715 720
 Tyr Arg Tyr Pro Pro Gly Val Tyr Leu Thr Tyr Asp Ser Asp Cys Pro
 725 730 735
 Leu Val Ala Ile Val Glu Ser Ala Pro Asp Gly Cys Ile Gly Pro Arg
 740 745 750
 Ser Val Val Val Tyr Asp Arg Asp Val Phe Ser Ile Leu Tyr Ser Val
 755 760 765
 Leu Gln His Leu Ala Pro Arg Leu Pro Asp Gly Gly His Asp Gly Pro
 770 775 780

Pro
 785

<210> 65
 <211> 514
 <212> DNA
 <213> Herpes Virus

<400> 65
 tacctggcgc gcgccgcggg actcgtgggg gccatggtat ttagcaccaa ctcggccctc 60
 catctcaccg aggtggacga cgccggcccg gcggacccaa aggaccacag caaacctcc 120
 ttttaccgct tcttcctcgt gcccgggacc cactgtggcg ccaaccacac ggtggaccgc 180
 gagggacacg tgggtgcccg gttcgagggt cgcccaccg cgccctcgt cggcggaacc 240
 caggaatttg ccggcgagca cctggccatg ctgtgtgggt ttccccggc gctgctggcc 300
 aagatgctgt tttacctgga gcgctgcgac ggcggcgtga tcgtcgggcg ccaggagatg 360
 gacgtgtttc gatacgtcgc ggactccaac cagaccgacg tgccctgtaa cctatgcacc 420
 ttcgacacgc gccacgcctg cgtacacacg acgctcatgc gcctccgggc gcgccatcca 480
 aagttcgcca gcgccgccg cggagccatc ggcg 514

<210> 66

<211> 171
 <212> PRT
 <213> Herpes Virus

<400> 66
 Tyr Leu Ala Arg Ala Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr
 1 5 10 15
 Asn Ser Ala Leu His Leu Thr Glu Val Asp Asp Ala Gly Pro Ala Asp
 20 25 30
 Pro Lys Asp His Ser Lys Pro Ser Phe Tyr Arg Phe Phe Leu Val Pro
 35 40 45
 Gly Thr His Val Ala Ala Asn Pro Gln Val Asp Arg Glu Gly His Val
 50 55 60
 Val Pro Gly Phe Glu Gly Arg Pro Thr Ala Pro Leu Val Gly Gly Thr
 65 70 75 80
 Gln Glu Phe Ala Gly Glu His Leu Ala Met Leu Cys Gly Phe Ser Pro
 85 90 95
 Ala Leu Leu Ala Lys Met Leu Phe Tyr Leu Glu Arg Cys Asp Gly Gly
 100 105 110
 Val Ile Val Gly Arg Gln Glu Met Asp Val Phe Arg Tyr Val Ala Asp
 115 120 125
 Ser Asn Gln Thr Asp Val Pro Cys Asn Leu Cys Thr Phe Asp Thr Arg
 130 135 140
 His Ala Cys Val His Thr Thr Leu Met Arg Leu Arg Ala Arg His Pro
 145 150 155 160
 Lys Phe Ala Ser Ala Ala Arg Gly Ala Ile Gly
 165 170

<210> 67
 <211> 3591
 <212> DNA
 <213> Herpes Virus

<400> 67
 atggagacaa agcccaagac ggcaaccacc atcaaggtcc cccccgggcc cctgggatac 60
 gtgtacgctc gcgcgtgtcc gtccgaaggc atcgagcttc tggcggtact gtcggcacgc 120
 agcggcgatt ccgacgtcgc cgtggcgccc ctgggtcgtgg gcctgaccgt ggagagcggc 180
 tttgaggcca acgtggccgt ggtcgtgggt tctcgacga cggggctcgg gggtagcgcg 240
 gtgtccctga aactgacgcc ctgcactac agctcgtccg tgtacgtctt tcacggcggc 300
 cggcacctgg accccagcac ccaggccccc aacctgacgc gactttgcga gcgggcacgc 360
 cgccattttg gcttttcgga ctacaccccc cggcccggcg acctcaaaca cgagacgacg 420
 ggggaggcgc tgtgtgagcg cctcggcctg gaccggacc gcgccctcct gtatctggtc 480
 gttaccgagg gcttcaaggc ggccgtgtgc atcaacaaca cctttctgca cctgggaggc 540
 tcggacaagg taaccatagg cggggcggag gtgcaccgca taccgtgta cccgttgacg 600
 ctgttcatgc cggattttag ccgtgtcatc gcagagccgt tcaacgcaa ccaccgatcg 660
 atcggggaga aatttaccta cccgcttcgg ttttttaacc gccccctcaa ccgcctcctg 720
 ttcgaggcgg tcgtgggacc cgcgcgcgtg gcaactgcga gccgaaacgt ggacgcgcgtg 780
 gccgcgcgg ccgcccacct ggcgtttgac gaaaaccacg agggcgccgc cctccccgcc 840
 gacattacgt tcacggcctt cgaagccagc cagggttaaga cccgcggggg cgggcgcgac 900
 ggcggcgga agggcgcgcc gggcggttc gaacagcgcc tggcctcgt catggccgga 960

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gacgccgccc tggccctcga gtctatcgtg tcgatggccg tctttgacga gccgccacc 1020
gacatctccg cgtggccgct gtctgagggc caggacacgg ccgcggcccg cgccaacgcc 1080
gtcggggcgt acctggcgcg cgccgcggga ctctggtggg ccatgggtatt tagcaccaac 1140
tcggccctcc atctcaccga ggtggacgac gccggcccg cggaacccaa ggaccacagc 1200
aaacctctct tttaccgctt cttctcgtg cccgggacct acgtggcggc caaccacag 1260
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cgccatccaa agttcgccag cgccgcccgc ggagccatcg gcgtcttcgg gaccatgaac 1620
agcatgtaca gcgactgcga cgtgctggga aactacgcc ccttctcggc cctgaagcgc 1680
gcgagcggat ccgagaccgc ccggaccatc atgcaggaga cgtaccgcgc ggcgaccgag 1740
cgctcatgag ccgaactcga gacctgcag tacgtggacc aggcgggtcc caccggccatg 1800
ggcgcggtgg agaccatcat caccaaccgc gaggccctgc atacggtggt gaacaacgtc 1860
aggcaggtcg tggaccgcga ggtggagcag ctgatgcgca acctggtgga ggggaggaac 1920
ttcaagtttc gcgacggtct gggcgaggcc aaccacgcca tgtccctgac gctggaccgg 1980
tacgctgtag ggccgtgccc cctgcttcag cttctcgggc ggcatccaa cctcgccgtg 2040
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cgcaactttc gcaatcaatt ccaaccggtg ctgcggcggc gcgtgatgga catgtttaac 2160
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cagtgttctt ggacggccct ccaacgcaac cagcttccc cccggctcct gtcgcgcgag 2580
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<210> 68
 <211> 1196
 <212> PRT
 <213> Herpes Virus

<400> 68
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 35 40 45

Ala Pro Leu Val Val Gly Leu Thr Val Glu Ser Gly Phe Glu Ala Asn
 50 55 60
 Val Ala Val Val Val Gly Ser Arg Thr Thr Gly Leu Gly Gly Thr Ala
 65 70 75 80
 Val Ser Leu Lys Leu Thr Pro Ser His Tyr Ser Ser Ser Val Tyr Val
 85 90 95
 Phe His Gly Gly Arg His Leu Asp Pro Ser Thr Gln Ala Pro Asn Leu
 100 105 110
 Thr Arg Leu Cys Glu Arg Ala Arg Arg His Phe Gly Phe Ser Asp Tyr
 115 120 125
 Thr Pro Arg Pro Gly Asp Leu Lys His Glu Thr Thr Gly Glu Ala Leu
 130 135 140
 Cys Glu Arg Leu Gly Leu Asp Pro Asp Arg Ala Leu Leu Tyr Leu Val
 145 150 155 160
 Val Thr Glu Gly Phe Lys Glu Ala Val Cys Ile Asn Asn Thr Phe Leu
 165 170 175
 His Leu Gly Gly Ser Asp Lys Val Thr Ile Gly Gly Ala Glu Val His
 180 185 190
 Arg Ile Pro Val Tyr Pro Leu Gln Leu Phe Met Pro Asp Phe Ser Arg
 195 200 205
 Val Ile Ala Glu Pro Phe Asn Ala Asn His Arg Ser Ile Gly Glu Asn
 210 215 220
 Phe Thr Tyr Pro Leu Pro Phe Phe Asn Arg Pro Leu Asn Arg Leu Leu
 225 230 235 240
 Phe Glu Ala Val Val Gly Pro Ala Ala Val Ala Leu Arg Cys Arg Asn
 245 250 255
 Val Asp Ala Val Ala Arg Ala Ala Ala His Leu Ala Phe Asp Glu Asn
 260 265 270
 His Glu Gly Ala Ala Leu Pro Ala Asp Ile Thr Phe Thr Ala Phe Glu
 275 280 285
 Ala Ser Gln Gly Lys Thr Pro Arg Gly Gly Arg Asp Gly Gly Gly Lys
 290 295 300
 Gly Pro Ala Gly Gly Phe Glu Gln Arg Leu Ala Ser Val Met Ala Gly
 305 310 315 320
 Asp Ala Ala Leu Ala Leu Glu Ser Ile Val Ser Met Ala Val Phe Asp
 325 330 335
 Glu Pro Pro Thr Asp Ile Ser Ala Trp Pro Leu Cys Glu Gly Gln Asp
 340 345 350
 Thr Ala Ala Ala Arg Ala Asn Ala Val Gly Ala Tyr Leu Ala Arg Ala
 355 360 365
 Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr Asn Ser Ala Leu His

370	375	380
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Lys Pro Ser Phe Tyr 405	Arg Phe Phe Leu Val 410	Pro Gly Thr His Val Ala 415
Ala Asn Pro Gln Val 420	Asp Arg Glu Gly His 425	Val Val Pro Gly Phe Glu 430
Gly Arg Pro Thr Ala 435	Pro Leu Val Gly Gly 440	Thr Gln Glu Phe Ala Gly 445
Glu His Leu Ala Met 450	Leu Cys Gly Phe Ser 455	Pro Ala Leu Leu Ala Lys 460
Met Leu Phe Tyr Leu 465	Glu Arg Cys Asp Gly 470 475	Gly Val Ile Val Gly Arg 480
Gln Glu Met Asp Val 485	Phe Arg Tyr Val Ala 490	Asp Ser Asn Gln Thr Asp 495
Val Pro Cys Asn Leu 500	Cys Thr Phe Asp Thr 505	Arg His Ala Cys Val His 510
Thr Thr Leu Met Arg 515	Leu Arg Ala Arg His 520	Pro Lys Phe Ala Ser Ala 525
Ala Arg Gly Ala Ile 530	Gly Val Phe Gly Thr 535	Met Asn Ser Met Tyr Ser 540
Asp Cys Asp Val Leu 545	Gly Asn Tyr Ala Ala 550 555	Phe Ser Ala Leu Lys Arg 560
Ala Asp Gly Ser Glu 565	Thr Ala Arg Thr Ile 570	Met Gln Glu Thr Tyr Arg 575
Ala Ala Thr Glu Arg 580	Val Met Ala Glu Leu 585	Glu Thr Leu Gln Tyr Val 590
Asp Gln Ala Val Pro 595	Thr Ala Met Gly Arg 600	Leu Glu Thr Ile Ile Thr 605
Asn Arg Glu Ala Leu 610	His Thr Val Val Asn 615 620	Asn Val Arg Gln Val Val
Asp Arg Glu Val Glu 625	Gln Leu Met Arg Asn 630 635	Leu Val Glu Gly Arg Asn 640
Phe Lys Phe Arg Asp 645	Gly Leu Gly Glu Ala 650	Asn His Ala Met Ser Leu 655
Thr Leu Asp Pro Tyr 660	Ala Cys Gly Pro Cys 665	Pro Leu Leu Gln Leu Leu 670
Gly Arg Arg Ser Asn 675	Leu Ala Val Tyr Gln 680	Asp Leu Ala Leu Ser Gln 685
Cys His Gly Val Phe 690	Ala Gly Gln Ser Val 695	Glu Gly Arg Asn Phe Arg 700

Asn Gln Phe Gln Pro Val Leu Arg Arg Arg Val Met Asp Met Phe Asn
 705 710 715 720
 Asn Gly Phe Leu Ser Ala Lys Thr Leu Thr Val Ala Leu Ser Glu Gly
 725 730 735
 Ala Ala Ile Cys Ala Pro Ser Leu Thr Ala Gly Gln Thr Ala Pro Ala
 740 745 750
 Glu Ser Ser Phe Glu Gly Asp Val Ala Arg Val Thr Leu Gly Phe Pro
 755 760 765
 Lys Glu Leu Arg Val Lys Ser Arg Val Leu Phe Ala Gly Ala Ser Ala
 770 775 780
 Asn Ala Ser Glu Ala Ala Lys Ala Arg Val Ala Ser Leu Gln Ser Ala
 785 790 795 800
 Tyr Gln Lys Pro Asp Lys Arg Val Asp Ile Leu Leu Gly Pro Leu Gly
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 Phe Leu Leu Lys Gln Phe His Ala Ala Ile Phe Pro Asn Gly Lys Pro
 820 825 830
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 835 840 845
 Arg Asn Gln Leu Pro Ala Arg Leu Leu Ser Arg Glu Asp Ile Glu Thr
 850 855 860
 Ile Ala Phe Ile Lys Lys Phe Ser Leu Asp Tyr Gly Ala Ile Asn Phe
 865 870 875 880
 Ile Asn Leu Ala Pro Asn Asn Val Ser Glu Leu Ala Met Tyr Tyr Met
 885 890 895
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 Thr Leu Thr Ala Ile Ile Ala Gly Ser Arg Arg Pro Pro Ser Val Gln
 915 920 925
 Ala Ala Ala Ala Trp Ser Ala Gln Gly Gly Ala Gly Leu Glu Ala Gly
 930 935 940
 Ala Arg Ala Leu Met Asp Ala Val Asp Ala His Pro Gly Ala Trp Thr
 945 950 955 960
 Ser Met Phe Ala Ser Cys Asn Leu Leu Arg Pro Val Met Ala Ala Arg
 965 970 975
 Pro Met Val Val Leu Gly Leu Ser Ile Ser Lys Tyr Tyr Gly Met Ala
 980 985 990
 Gly Asn Asp Arg Val Phe Gln Ala Gly Asn Trp Ala Ser Leu Met Gly
 995 1000 1005
 Gly Lys Asn Ala Cys Pro Leu Leu Ile Phe Asp Arg Thr Arg Lys Phe
 1010 1015 1020

Val Leu Ala Cys Pro Arg Ala Gly Phe Val Cys Ala Ala Ser Asn Leu
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 Gly Gly Gly Ala His Glu Ser Ser Leu Cys Glu Gln Leu Arg Gly Ile
 1045 1050 1055
 Ile Ser Glu Gly Gly Ala Ala Val Ala Ser Ser Val Phe Val Ala Thr
 1060 1065 1070
 Val Lys Ser Leu Gly Pro Arg Thr Gln Gln Leu Gln Ile Glu Asp Trp
 1075 1080 1085
 Leu Ala Leu Leu Glu Asp Glu Tyr Leu Ser Glu Glu Met Met Glu Leu
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 Thr Ala Arg Ala Leu Glu Arg Gly Asn Gly Glu Trp Ser Thr Asp Ala
 1105 1110 1115 1120
 Ala Leu Glu Val Ala His Glu Ala Glu Ala Leu Val Ser Gln Leu Gly
 1125 1130 1135
 Asn Ala Gly Glu Val Phe Asn Phe Gly Asp Phe Gly Cys Glu Asp Asp
 1140 1145 1150
 Asn Ala Thr Pro Phe Gly Gly Pro Gly Ala Pro Gly Pro Ala Phe Ala
 1155 1160 1165
 Gly Arg Lys Arg Ala Phe His Gly Asp Asp Pro Phe Gly Glu Gly Pro
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 1185 1190 1195

<210> 69
 <211> 1323
 <212> DNA
 <213> Herpes Virus

<400> 69
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 aagactcgcc gctcgcccgga gcccccggc gcagacctcg cccagctgtt cgaggccac 240
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ctg 1323

<210> 70
<211> 441
<212> PRT
<213> Herpes Virus

<400> 70
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Asp Pro Ala Gly Pro Pro Val Ala Glu Ala Gly Glu Asp Asp Gly Pro
35 40 45
Thr Val Pro Ala Ser Ser Gln Ala Leu Glu Ala Leu Lys Thr Arg Arg
50 55 60
Ser Pro Glu Pro Pro Gly Ala Asp Leu Ala Gln Leu Phe Glu Ala His
65 70 75 80
Pro Asn Val Ala Ala Thr Ala Val Lys Phe Thr Ala Cys Ser Ala Ala
85 90 95
Leu Ala Arg Glu Val Ala Ala Cys Ser Arg Leu Thr Ile Ser Ala Leu
100 105 110
Arg Ser Pro Tyr Pro Ala Ser Pro Gly Leu Leu Glu Leu Cys Val Ile
115 120 125
Phe Phe Phe Glu Arg Val Leu Ala Phe Leu Ile Glu Asn Gly Ala Arg
130 135 140
Thr His Thr Gln Ala Gly Val Ala Gly Pro Ala Ala Ala Leu Leu Glu
145 150 155 160
Phe Thr Leu Asn Met Leu Pro Trp Lys Thr Ala Val Gly Asp Phe Leu
165 170 175
Ala Ser Thr Arg Leu Ser Leu Ala Asp Val Ala Ala His Leu Pro Leu
180 185 190
Val Gln His Val Leu Asp Glu Asn Ser Leu Ile Gly Arg Leu Ala Leu
195 200 205
Ala Lys Leu Ile Leu Val Ala Arg Asp Val Ile Arg Glu Thr Asp Ala
210 215 220
Phe Tyr Gly Glu Leu Ala Asp Leu Glu Leu Gln Leu Arg Ala Ala Pro
225 230 235 240
Pro Ala Asn Leu Tyr Thr Arg Leu Gly Glu Trp Leu Leu Glu Arg Ser
245 250 255
Gln Ala His Pro Asp Thr Leu Phe Ala Pro Ala Thr Pro Thr His Pro
260 265 270

Glu Pro Leu Leu Tyr Arg Val Gln Ala Leu Ala Lys Phe Ala Arg Gly
 275 280 285
 Glu Glu Ile Arg Val Glu Ala Glu Asp Arg Gln Met Arg Glu Ala Leu
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 Asp Ala Leu Ala Arg Gly Val Asp Ala Val Ser Gln His Ala Gly Pro
 305 310 315 320
 Leu Gly Val Met Pro Ala Pro Ala Gly Ala Ala Pro Gln Gly Ala Pro
 325 330 335
 Arg Pro Pro Pro Leu Gly Pro Glu Ala Val Gln Val Arg Leu Glu Glu
 340 345 350
 Val Arg Thr Gln Ala Arg Arg Ala Ile Glu Gly Ala Val Lys Glu Tyr
 355 360 365
 Phe Tyr Arg Gly Ala Val Tyr Ser Ala Lys Ala Leu Gln Ala Ser Asp
 370 375 380
 Asn Asn Asp Arg Arg Phe His Val Ala Ser Ala Ala Val Val Pro Val
 385 390 395 400
 Val Gln Leu Leu Glu Ser Leu Pro Val Phe Asp Gln His Thr Arg Asp
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<210> 71
 <211> 9495
 <212> DNA
 <213> Herpes Virus

<400> 71
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Cys Met Arg Ser Ser Leu Ser Phe Leu Ser Leu Ile Phe Asp Val Gly
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Gly Gly Glu Trp Thr Arg Ala Thr Ala Gly Pro Gly Pro Pro Arg Met
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Cys Ser Ile Val Glu Leu Pro Asn Phe Leu Glu Tyr Pro Gly Ala Arg
      115                      120                      125

Gly Gly Leu Arg Cys Val Phe Ser Arg Val Tyr Gly Glu Val Gly Phe
      130                      135                      140

Phe Gly Glu Pro Ala Ala Gly Leu Leu Glu Thr Gln Cys Pro Ala His
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Thr Phe Phe Ala Gly Pro Trp Ala Leu Arg Pro Leu Ser Tyr Thr Leu
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Leu	Glu	Ala	Leu	Lys	Thr	Arg	Arg	Ser	Pro	Glu	Pro	Pro	Gly	Ala	Asp
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 Lys Phe Thr Ala Cys Ser Ala Ala Leu Ala Arg Glu Val Ala Ala Cys
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 Asp Arg Gln Met Arg Glu Ala Leu Asp Ala Leu Ala Arg Gly Val Asp
 755 760 765
 Ala Val Ser Gln His Ala Gly Pro Leu Gly Val Met Pro Ala Pro Ala
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 Gly Ala Ala Pro Gln Gly Ala Pro Arg Pro Pro Pro Leu Gly Pro Glu
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<211> 1128
<212> DNA
<213> Herpes Virus

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ggcgccagcg	agcacacgca	cgggcgggctc	tgcgagggcg	tcggcctgtc	ggggggcggtt	420
ctaagccaga	cgctggcgcg	tatcatgggt	ccggccgtgc	cgacggaaca	tctggcgagc	480
ctgcggcggg	cgtcgtgagg	ggagtttgag	acggccgagc	gccgctttag	ttccgggtcaa	540
cccagccttc	tccgcgagac	ggcgctcatc	tggatcgacg	tgtatgggtca	gacccactgg	600
gacatcaccc	ccaccacccc	ggccacgcgc	ctgtccgcgc	ttctccccgt	cgggcagccc	660
agccacgccc	cctctgtcca	cctggccgcg	gcgaccacga	tccgcttccc	cgcctcgag	720
ggcattcacc	ccaacgtcct	cgcgcagccc	ggcttcgtcc	cctacgttct	ggccctgggtg	780
gtcggggagc	cgctgagggc	cacgtgtagc	gcggcctacc	ttccccgcgc	ggtcgagttc	840
gccctgcgtg	tgttggcctg	ggcccgggac	tttgggctgg	gctatctccc	cacggttgag	900
ggccatcgca	ccaaactggg	cgcgctgac	accctcctcg	aaccggccgc	cgggggcggc	960
ctcggcccca	ctatgcagat	ggccgacaac	atagagcagc	tgtccggga	gctgtacgtg	1020
atctccaggg	gtgccgtcga	gcagctgcgg	ccctgggtcc	agctgcagcc	ccccccgccc	1080
cccgaggtgg	gcaccagcct	cctgttgatt	agcatgtacg	ccctggcc		1128

<210> 74
<211> 376
<212> PRT
<213> Herpes Virus

<400> 74

Phe	Gln	Pro	Ala	Val	Ser	Ser	Leu	Leu	Gln	Leu	Gly	Glu	Gln	Pro	Ser
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Ala	Gly	Ala	Gln	Gln	Arg	Leu	Leu	Ala	Leu	Leu	Gln	Gln	Thr	Trp	Thr
			20					25					30		
Leu	Ile	Gln	Asn	Thr	Asn	Ser	Pro	Ser	Val	Val	Ile	Asn	Thr	Leu	Ile
		35					40					45			
Asp	Ala	Gly	Phe	Thr	Pro	Ser	His	Cys	Thr	His	Tyr	Leu	Ser	Ala	Leu
	50					55					60				
Glu	Gly	Phe	Leu	Ala	Ala	Gly	Val	Pro	Ala	Arg	Thr	Pro	Thr	Gly	His
	65				70					75				80	
Gly	Leu	Gly	Glu	Val	Gln	Gln	Leu	Phe	Gly	Cys	Ile	Ala	Leu	Ala	Gly
				85					90					95	
Ser	Asn	Val	Phe	Gly	Leu	Ala	Arg	Glu	Tyr	Gly	Tyr	Tyr	Ala	Asn	Tyr

100					105					110					
Val	Lys	Thr	Phe	Arg	Arg	Val	Gln	Gly	Ala	Ser	Glu	His	Thr	His	Gly
		115					120					125			
Arg	Leu	Cys	Glu	Ala	Val	Gly	Leu	Ser	Gly	Gly	Val	Leu	Ser	Gln	Thr
	130					135					140				
Leu	Ala	Arg	Ile	Met	Gly	Pro	Ala	Val	Pro	Thr	Glu	His	Leu	Ala	Ser
145					150					155					160
Leu	Arg	Arg	Ala	Leu	Val	Gly	Glu	Phe	Glu	Thr	Ala	Glu	Arg	Arg	Phe
			165						170					175	
Ser	Ser	Gly	Gln	Pro	Ser	Leu	Leu	Arg	Glu	Thr	Ala	Leu	Ile	Trp	Ile
			180					185						190	
Asp	Val	Tyr	Gly	Gln	Thr	His	Trp	Asp	Ile	Thr	Pro	Thr	Thr	Pro	Ala
		195					200					205			
Thr	Pro	Leu	Ser	Ala	Leu	Leu	Pro	Val	Gly	Gln	Pro	Ser	His	Ala	Pro
	210					215					220				
Ser	Val	His	Leu	Ala	Ala	Ala	Thr	Gln	Ile	Arg	Phe	Pro	Ala	Leu	Glu
225				230						235					240
Gly	Ile	His	Pro	Asn	Val	Leu	Ala	Asp	Pro	Gly	Phe	Val	Pro	Tyr	Val
				245					250					255	
Leu	Ala	Leu	Val	Val	Gly	Asp	Ala	Leu	Arg	Ala	Thr	Cys	Ser	Ala	Ala
		260						265					270		
Tyr	Leu	Pro	Arg	Pro	Val	Glu	Phe	Ala	Leu	Arg	Val	Leu	Ala	Trp	Ala
		275					280						285		
Arg	Asp	Phe	Gly	Leu	Gly	Tyr	Leu	Pro	Thr	Val	Glu	Gly	His	Arg	Thr
	290					295					300				
Lys	Leu	Gly	Ala	Leu	Ile	Thr	Leu	Leu	Glu	Pro	Ala	Ala	Arg	Gly	Gly
305					310					315					320
Leu	Gly	Pro	Thr	Met	Gln	Met	Ala	Asp	Asn	Ile	Glu	Gln	Leu	Leu	Arg
				325					330					335	
Glu	Leu	Tyr	Val	Ile	Ser	Arg	Gly	Ala	Val	Glu	Gln	Leu	Arg	Pro	Leu
			340					345					350		
Val	Gln	Leu	Gln	Pro	Pro	Pro	Pro	Pro	Glu	Val	Gly	Thr	Ser	Leu	Leu
		355					360					365			
Leu	Ile	Ser	Met	Tyr	Ala	Leu	Ala								
	370					375									

<210> 75
 <211> 1083
 <212> DNA
 <213> Herpes Virus

<400> 75
 ctgattcgcc aactggagga cgccatcggtg ctgctgcggc tgcacatgcg cagcgtctcc 60

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acgcccagacc gctgggggcc ctggccccc gaggccatgg gggacgcggt gagtcagtac 180
tgcagcatgt atcacgacgc caagcgcgcg ctggtcgcgt ccctcgcgag cctgcgttcc 240
gtcatcaccg aaaccacggc gcacctgggg gtgtgcgacg agctggcggc ccaggtgtcg 300
cacgaggaca acgtgctggc cgtgggtccg gcgaaattc acgggtttct gtccgtcgtg 360
tccggcattc acgcccgggc gtcgaagctg ctgtcgggag accaggtecc cgggttttgc 420
ttcatgggtc agtttctagc gcgctggcgg cgtctgtcgg cctgctatca agccgcgcgc 480
gcgggccgcg gacccgagcc cgtggccgag tttgtccagg aactccacga cacgtggaag 540
ggcctgcaga cggagcgcg cgtggtcgtg gcgcccttgg tcagctcggc cgaccagcgc 600
gccgcggcca tccgagaggt aatggcgcat gcgcccaggg acgccccccc gcaaagcccc 660
gcggccgacc gcgtcgtgct tacgagccgt cgcgacctag gggcctgggg ggactacagc 720
ctcggccccc tgggccagac gaccgcggtt ccggactccg tggatctgtc tcgccagggg 780
ctggcgttta cgctgagtat ggattgggta ctgatgaacg agtcctgcg ggtcaccgac 840
ggcgtgtttc gcgcttccgc gtttcgtccg ttagccggac cggagtctcc cagggacctg 900
gaggtccgcg acgccgaaa cagtctcccc gcgcctatgc ccatggacgc acagaagccg 960
gaggcctatg ggcacggccc acgccaggcg gaccgcgagg gggcgccctc ttccaacacc 1020
cccgtcgagg acgacgagat gatcccggag gacaccgtcg cgccaccac ggacttgccg 1080
tta
1083

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<210> 76
 <211> 361
 <212> PRT
 <213> Herpes Virus

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<400> 76
Leu Ile Arg Gln Leu Glu Asp Ala Ile Val Leu Leu Arg Leu His Met
 1           5           10          15

Arg Thr Leu Ser Ala Phe Phe Glu Cys Arg Phe Glu Ser Asp Gly Arg
          20           25           30

Arg Leu Tyr Ala Val Val Gly Asp Thr Pro Asp Arg Leu Gly Pro Trp
          35           40           45

Pro Pro Glu Ala Met Gly Asp Ala Val Ser Gln Tyr Cys Ser Met Tyr
          50           55           60

His Asp Ala Lys Arg Ala Leu Val Ala Ser Leu Ala Ser Leu Arg Ser
          65           70           75           80

Val Ile Thr Glu Thr Thr Ala His Leu Gly Val Cys Asp Glu Leu Ala
          85           90           95

Ala Gln Val Ser His Glu Asp Asn Val Leu Ala Val Val Arg Arg Glu
          100          105          110

Ile His Gly Phe Leu Ser Val Val Ser Gly Ile His Ala Arg Ala Ser
          115          120          125

Lys Leu Leu Ser Gly Asp Gln Val Pro Gly Phe Cys Phe Met Gly Gln
          130          135          140

Phe Leu Ala Arg Trp Arg Arg Leu Ser Ala Cys Tyr Gln Ala Ala Arg
          145          150          155          160

Ala Ala Ala Gly Pro Glu Pro Val Ala Glu Phe Val Gln Glu Leu His
          165          170          175

Asp Thr Trp Lys Gly Leu Gln Thr Glu Arg Ala Val Val Val Ala Pro
          180          185          190

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Leu Val Ser Ser Ala Asp Gln Arg Ala Ala Ala Ile Arg Glu Val Met
 195 200 205
 Ala His Ala Pro Glu Asp Ala Pro Pro Gln Ser Pro Ala Ala Asp Arg
 210 215 220
 Val Val Leu Thr Ser Arg Arg Asp Leu Gly Ala Trp Gly Asp Tyr Ser
 225 230 235 240
 Leu Gly Pro Leu Gly Gln Thr Thr Ala Val Pro Asp Ser Val Asp Leu
 245 250 255
 Ser Arg Gln Gly Leu Ala Val Thr Leu Ser Met Asp Trp Leu Leu Met
 260 265 270
 Asn Glu Leu Leu Arg Val Thr Asp Gly Val Phe Arg Ala Ser Ala Phe
 275 280 285
 Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg Asp Leu Glu Val Arg Asp
 290 295 300
 Ala Gly Asn Ser Leu Pro Ala Pro Met Pro Met Asp Ala Gln Lys Pro
 305 310 315 320
 Glu Ala Tyr Gly His Gly Pro Arg Gln Ala Asp Arg Glu Gly Ala Pro
 325 330 335
 His Ser Asn Thr Pro Val Glu Asp Asp Glu Met Ile Pro Glu Asp Thr
 340 345 350
 Val Ala Pro Pro Thr Asp Leu Pro Leu
 355 360

<210> 77
 <211> 3372
 <212> DNA
 <213> Herpes Virus

<400> 77
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 ccctcggacg gacctatgca gcgcctattg gcgagcctag ccggccttcg ccaaccgcca 120
 acccccacgg ccgagacggc aaacggggcg gacgaccgg cgtttctggc cacggccaag 180
 ctgcgcgccg ccatggcggc gtttctgttg tcgggaacgg ccatcgcccc ggcagacgcg 240
 cgggactgct ggcgcccgct gctggaacac ctgtgcgcgc tccaccgggc ccacgggctt 300
 ccggagacgg cgctcttggc cgagaacctc cccgggttgc tcgtacaccg cttggtggtg 360
 gctctccccg agggccccga ccaggccttc cgggagatgg aggtcatcaa ggacaccatc 420
 ctgcgcgtca ccggctccga cacgtcccat gcgctggatt ccgcggcct gcgcaccgcg 480
 gcggccctgg ggccgggtccg cgtccgccag tgcgccgtgg agtggataga ccgctggcaa 540
 accgtcacca agagctgctt ggccatgagc ccgcggacct ccatcgaggc ccttggggag 600
 acgtcgctca agatggcgcc ggtcccgttg gggcagccca gcgcgaacct taccaccccg 660
 gcgtacagcc tgctcttccc cgccccgttc gtgcaagagg gcctccgggt cttggccctg 720
 gtgagtaatc gggtgacgct gttctcggcg caccctccag gcatagacga cgcgaccctc 780
 actccccca caccggccct ctttacgttg gccctggttg acgagtacct gacgaccccc 840
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 ctgagttcgt cggcactggc agtcttcag cctgccgtct ccagcctgct gcagctcggg 1140
 gaggagccct ccgccggcgc ccagcagcgg ctgctggctc tgctgcagca gacgtggacg 1200

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agttaccaat aa 3372

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<210> 78
 <211> 1123
 <212> PRT
 <213> Herpes Virus

<400> 78
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 Pro Ala Gly Pro Pro Ser Asp Gly Pro Met Gln Arg Leu Leu Ala Ser
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 Leu Ala Gly Leu Arg Gln Pro Pro Thr Pro Thr Ala Glu Thr Ala Asn
 35 40 45
 Gly Ala Asp Asp Pro Ala Phe Leu Ala Thr Ala Lys Leu Arg Ala Ala
 50 55 60
 Met Ala Ala Phe Leu Leu Ser Gly Thr Ala Ile Ala Pro Ala Asp Ala
 65 70 75 80
 Arg Asp Cys Trp Arg Pro Leu Leu Glu His Leu Cys Ala Leu His Arg

Asp Ala Gly Phe Thr Pro Ser His Cys Thr His Tyr Leu Ser Ala Leu
 420 425 430
 Glu Gly Phe Leu Ala Ala Gly Val Pro Ala Arg Thr Pro Thr Gly His
 435 440 445
 Gly Leu Gly Glu Val Gln Gln Leu Phe Gly Cys Ile Ala Leu Ala Gly
 450 455 460
 Ser Asn Val Phe Gly Leu Ala Arg Glu Tyr Gly Tyr Tyr Ala Asn Tyr
 465 470 475 480
 Val Lys Thr Phe Arg Arg Val Gln Gly Ala Ser Glu His Thr His Gly
 485 490 495
 Arg Leu Cys Glu Ala Val Gly Leu Ser Gly Gly Val Leu Ser Gln Thr
 500 505 510
 Leu Ala Arg Ile Met Gly Pro Ala Val Pro Thr Glu His Leu Ala Ser
 515 520 525
 Leu Arg Arg Ala Leu Val Gly Glu Phe Glu Thr Ala Glu Arg Arg Phe
 530 535 540
 Ser Ser Gly Gln Pro Ser Leu Leu Arg Glu Thr Ala Leu Ile Trp Ile
 545 550 555 560
 Asp Val Tyr Gly Gln Thr His Trp Asp Ile Thr Pro Thr Thr Pro Ala
 565 570 575
 Thr Pro Leu Ser Ala Leu Leu Pro Val Gly Gln Pro Ser His Ala Pro
 580 585 590
 Ser Val His Leu Ala Ala Ala Thr Gln Ile Arg Phe Pro Ala Leu Glu
 595 600 605
 Gly Ile His Pro Asn Val Leu Ala Asp Pro Gly Phe Val Pro Tyr Val
 610 615 620
 Leu Ala Leu Val Val Gly Asp Ala Leu Arg Ala Thr Cys Ser Ala Ala
 625 630 635 640
 Tyr Leu Pro Arg Pro Val Glu Phe Ala Leu Arg Val Leu Ala Trp Ala
 645 650 655
 Arg Asp Phe Gly Leu Gly Tyr Leu Pro Thr Val Glu Gly His Arg Thr
 660 665 670
 Lys Leu Gly Ala Leu Ile Thr Leu Leu Glu Pro Ala Ala Arg Gly Gly
 675 680 685
 Leu Gly Pro Thr Met Gln Met Ala Asp Asn Ile Glu Gln Leu Leu Arg
 690 695 700
 Glu Leu Tyr Val Ile Ser Arg Gly Ala Val Glu Gln Leu Arg Pro Leu
 705 710 715 720
 Val Gln Leu Gln Pro Pro Pro Pro Pro Glu Val Gly Thr Ser Leu Leu
 725 730 735

Leu Ile Ser Met Tyr Ala Leu Ala Ala Arg Gly Val Leu Gln Asp Leu
 740 745 750
 Ala Glu Arg Ala Asp Pro Leu Ile Arg Gln Leu Glu Asp Ala Ile Val
 755 760 765
 Leu Leu Arg Leu His Met Arg Thr Leu Ser Ala Phe Phe Glu Cys Arg
 770 775 780
 Phe Glu Ser Asp Gly Arg Arg Leu Tyr Ala Val Val Gly Asp Thr Pro
 785 790 795 800
 Asp Arg Leu Gly Pro Trp Pro Pro Glu Ala Met Gly Asp Ala Val Ser
 805 810 815
 Gln Tyr Cys Ser Met Tyr His Asp Ala Lys Arg Ala Leu Val Ala Ser
 820 825 830
 Leu Ala Ser Leu Arg Ser Val Ile Thr Glu Thr Thr Ala His Leu Gly
 835 840 845
 Val Cys Asp Glu Leu Ala Ala Gln Val Ser His Glu Asp Asn Val Leu
 850 855 860
 Ala Val Val Arg Arg Glu Ile His Gly Phe Leu Ser Val Val Ser Gly
 865 870 875 880
 Ile His Ala Arg Ala Ser Lys Leu Leu Ser Gly Asp Gln Val Pro Gly
 885 890 895
 Phe Cys Phe Met Gly Gln Phe Leu Ala Arg Trp Arg Arg Leu Ser Ala
 900 905 910
 Cys Tyr Gln Ala Ala Arg Ala Ala Ala Gly Pro Glu Pro Val Ala Glu
 915 920 925
 Phe Val Gln Glu Leu His Asp Thr Trp Lys Gly Leu Gln Thr Glu Arg
 930 935 940
 Ala Val Val Val Ala Pro Leu Val Ser Ser Ala Asp Gln Arg Ala Ala
 945 950 955 960
 Ala Ile Arg Glu Val Met Ala His Ala Pro Glu Asp Ala Pro Pro Gln
 965 970 975
 Ser Pro Ala Ala Asp Arg Val Val Leu Thr Ser Arg Arg Asp Leu Gly
 980 985 990
 Ala Trp Gly Asp Tyr Ser Leu Gly Pro Leu Gly Gln Thr Thr Ala Val
 995 1000 1005
 Pro Asp Ser Val Asp Leu Ser Arg Gln Gly Leu Ala Val Thr Leu Ser
 1010 1015 1020
 Met Asp Trp Leu Leu Met Asn Glu Leu Leu Arg Val Thr Asp Gly Val
 1025 1030 1035 1040
 Phe Arg Ala Ser Ala Phe Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg
 1045 1050 1055
 Asp Leu Glu Val Arg Asp Ala Gly Asn Ser Leu Pro Ala Pro Met Pro

1060 1065 1070
 Met Asp Ala Gln Lys Pro Glu Ala Tyr Gly His Gly Pro Arg Gln Ala
 1075 1080 1085
 Asp Arg Glu Gly Ala Pro His Ser Asn Thr Pro Val Glu Asp Asp Glu
 1090 1095 1100
 Met Ile Pro Glu Asp Thr Val Ala Pro Pro Thr Asp Leu Pro Leu Thr
 1105 1110 1115 1120
 Ser Tyr Gln

<210> 79
 <211> 1401
 <212> DNA
 <213> Herpes Virus

<400> 79
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 gtgggtcaaat atcagcgccc ataccccagt tacgaccgag aggccattac gctacactgc 180
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 acggcccagt gccggacgga cgaggaggcc agtgacgtgg acgcctctcc accgccttcc 360
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 ctggcctcgg ggacccgggg gacggccggg tccggagccg cgctgccgtc cgccgcgccc 480
 tcgaagccgg ccctgcgtct ggcgcatctg ttctgtattc gcgttctccg ggccctgggg 540
 tacgcctaca ttaactcggg tcagctggag gcggacgatg cctgcgcaa cctctatcac 600
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 catcccaata acacctacgc ctccgtggag gatgtgctgc gcgaatgtca ctggaccccc 840
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 gaaattctaa cccaacagat cgccggcgga tacgaagacg acgaggacct cccctgggat 1020
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 ccgcccagag tcgtccaggt cccgaacgcg cagctgctgg aagagcaccg cagttatgtg 1140
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 cgcgacgaaa acctggcgcg atctatcgtg acccggcata tcacggcccc tgatatcgcc 1380
 gacaggtttc tggagcagtt g 1401

<210> 80
 <211> 467
 <212> PRT
 <213> Herpes Virus

<400> 80
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 Arg Gly Leu Gly Ala Pro Ala Gly Tyr Phe Thr Pro Ile Ala Val Asp
 20 25 30
 Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg Arg Tyr
 35 40 45

Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys Arg Leu
 50 55 60
 Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val Thr Asp
 65 70 75 80
 Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys Ala Ile
 85 90 95
 Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala Ser Asp
 100 105 110
 Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg Pro Ser
 115 120 125
 Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala Ser Gly
 130 135 140
 Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala Ala Pro
 145 150 155 160
 Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg Val Leu
 165 170 175
 Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu Ala Asp
 180 185 190
 Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr Val Tyr
 195 200 205
 Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val Leu Asp
 210 215 220
 Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile Leu Lys
 225 230 235 240
 Tyr Phe Lys Met Ser Tyr Pro Gln Phe Leu Ala Leu Phe Val Arg Cys
 245 250 255
 His Thr Asp Leu His Pro Asn Asn Thr Tyr Ala Ser Val Glu Asp Val
 260 265 270
 Leu Arg Glu Cys His Trp Thr Pro Pro Ser Arg Ser Gln Thr Arg Arg
 275 280 285
 Ala Ile Arg Arg Glu His Thr Ser Ser Arg Ser Thr Glu Thr Arg Pro
 290 295 300
 Pro Leu Pro Pro Ala Ala Gly Gly Thr Glu Thr Arg Val Ser Trp Thr
 305 310 315 320
 Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp Glu Asp
 325 330 335
 Leu Pro Leu Asp Pro Arg Asp Val Thr Gly Gly His Pro Gly Pro Arg
 340 345 350
 Ser Ser Ser Ser Glu Ile Leu Thr Pro Pro Glu Leu Val Gln Val Pro
 355 360 365

Asn Ala Gln Leu Leu Glu Glu His Arg Ser Tyr Val Ala Asn Pro Arg
 370 375 380
 Arg His Val Ile His Asp Ala Pro Glu Ser Leu Asp Trp Leu Pro Asp
 385 390 395 400
 Pro Met Thr Ile Thr Glu Leu Val Glu His Arg Tyr Ile Lys Tyr Val
 405 410 415
 Ile Ser Leu Ile Gly Pro Lys Glu Arg Gly Pro Trp Thr Leu Leu Lys
 420 425 430
 Arg Leu Pro Ile Tyr Gln Asp Ile Arg Asp Glu Asn Leu Ala Arg Ser
 435 440 445
 Ile Val Thr Arg His Ile Thr Ala Pro Asp Ile Ala Asp Arg Phe Leu
 450 455 460
 Glu Gln Leu
 465

<210> 81
 <211> 1470
 <212> DNA
 <213> Herpes Virus

<400> 81
 atgggtttgt tccggatgat gaagtttgcc cacacacacc atctgggtcaa gcgccggggc 60
 cttggggccc cggccgggta cttcaccccc attgccgtgg acctgtggaa cgtcatgtac 120
 acgttggttg tcaaatatca gcgccgatac ccagttacg accgcgaggc cattacgcta 180
 cactgcctct gtcgcttatt aaaggtgttt acccaaaagt cccttttccc catcttcgtt 240
 accgatcgcg gggatcaattg tatggagccg gttgtgtttg gagccaaggc catcctggcc 300
 cgcacgacgg ccagtgccg gacggacgag gaggccagtg acgtggacgc ctctccaccg 360
 ccttccccc tcaccgactc cagaccacgc tctgcctttt ccaacatgcg ccggcgcgcc 420
 acctctctgg cctcggggac ccgggggacg gccgggtccg gagccgcgct gccgtccgcc 480
 gcgccctcga agccggccct gcgtctggcg catctgttct gtattcgcgt tctccgggcc 540
 ctggggtaacg cctacattaa ctccgggtcag ctggaggcgg acgatgcctg cgccaacctc 600
 tatcacacca acacggtcgc gtacgtgtac accacggaca ctgacctcct gttgatgggc 660
 tgtgatattg tgttgatat tagcgctgc tacattcca cgatcaactg tcgcatata 720
 ctaaagtact ttaagatgag ctacccccag ttcttgccc tctttgtccg ctgccacacc 780
 gacctccatc ccaataacac ctacgcctcc gtggaggatg tgctgcgcga atgtactg 840
 acccccccga gtcgctctca gaccggcgcc gccatccgcc gggaacacac cagctcgcgc 900
 tccacgga aa ccaggcccc tctgccgccc gccgccggcg gcaccgagac gcgcgtctcg 960
 tggaccgaaa ttctaaccac acagatcgcc ggccgatacg aagacgacga ggacctcccc 1020
 ctggatcccc gggacgttac cgggggccac ccggcccca ggtcgtcctc ctccgagata 1080
 ctcaccccg cccagctcgt ccaggtccc aacgcgcagc tgctggaaga gcaccgagt 1140
 tatgtggcca accgcgacg ccacgtcatc cagcagccc cagagtcctt ggactggctc 1200
 cccgatccca tgaccatcac cgaactggtg gaacaccgct acattaagta cgtcatatcg 1260
 cttatcgccc ccaaggagcg ggggccgtgg actcttctga aacgcctgcc tatctaccag 1320
 gacatccgcg acgaaaacct ggccgcatct atcgtgaccc ggcataatcac ggccctgat 1380
 atcgccgaca ggtttctgga gcagttgcgg acccaggccc cccacccgc gttctacaag 1440
 gacgtcctgg ccaattctg ggacgagtag 1470

<210> 82
 <211> 489
 <212> PRT
 <213> Herpes Virus

<400> 82

Met Gly Leu Phe Gly Met Met Lys Phe Ala His Thr His His Leu Val
1 5 10 15
Lys Arg Arg Gly Leu Gly Ala Pro Ala Gly Tyr Phe Thr Pro Ile Ala
20 25 30
Val Asp Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg
35 40 45
Arg Tyr Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys
50 55 60
Arg Leu Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val
65 70 75 80
Thr Asp Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys
85 90 95
Ala Ile Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala
100 105 110
Ser Asp Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg
115 120 125
Pro Ser Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala
130 135 140
Ser Gly Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala
145 150 155 160
Ala Pro Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg
165 170 175
Val Leu Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu
180 185 190
Ala Asp Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr
195 200 205
Val Tyr Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val
210 215 220
Leu Asp Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile
225 230 235 240
Leu Lys Tyr Phe Lys Met Ser Tyr Pro Gln Phe Leu Ala Leu Phe Val
245 250 255
Arg Cys His Thr Asp Leu His Pro Asn Asn Thr Tyr Ala Ser Val Glu
260 265 270
Asp Val Leu Arg Glu Cys His Trp Thr Pro Pro Ser Arg Ser Gln Thr
275 280 285
Arg Arg Ala Ile Arg Arg Glu His Thr Ser Ser Arg Ser Thr Glu Thr
290 295 300
Arg Pro Pro Leu Pro Pro Ala Ala Gly Gly Thr Glu Thr Arg Val Ser
305 310 315 320
Trp Thr Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp

<210> 84
 <211> 419
 <212> PRT
 <213> Herpes Virus

<400> 84
 Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg Gly Met Leu
 1 5 10 15
 Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly Gln Gly Arg
 20 25 30
 Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala Leu Ala Arg
 35 40 45
 Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly Phe Ala Gly
 50 55 60
 Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala Ser Gly Ala
 65 70 75 80
 Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala Pro Pro Pro
 85 90 95
 Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys Leu Ala Ala
 100 105 110
 Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro Gly Thr Gln
 115 120 125
 Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu Ala Leu Gly
 130 135 140
 Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val Tyr Pro Leu
 145 150 155 160
 Phe Leu Leu Ala Pro Gly Pro Leu Phe Val Gly Thr Leu Gly Met Val
 165 170 175
 Val Gly Gly Leu Thr Ile Gly Gly Ser Ala Arg Tyr Trp Trp Ile Gly
 180 185 190
 Gly Pro Ala Ala Ala Leu Ala Ala Val Leu Ala Gly Pro Gly
 195 200 205
 Ala Thr Thr Ala Arg Asp Cys Phe Ser Arg Ala Cys Pro Asp His Arg
 210 215 220
 Arg Val Cys Val Ile Thr Ala Gly Glu Ser Leu Ser Arg Arg Pro Pro
 225 230 235 240
 Glu Asp Pro Glu Arg Pro Gly Val Pro Gly Pro Pro Ser Pro Pro Thr
 245 250 255
 Pro Gln Arg Ser His Gly Pro Pro Ala Asp Glu Val Ala Pro Ala Arg
 260 265 270
 Val Ala Arg Pro Glu Asn Val Trp Val Pro Val Val Thr Phe Leu Gly
 275 280 285

Ala Gly Ala Leu Ala Val Lys Thr Val Arg Glu His Ala Arg Gly Thr
 290 295 300

Pro Gly Pro Gly Leu Pro Leu Trp Pro Gln Val Phe Leu Gly Gly His
 305 310 315 320

Val Ala Val Ala Leu Thr Glu Leu Cys Gln Ala Leu Pro Pro Trp Asp
 325 330 335

Leu Thr Asp Pro Leu Leu Phe Val His Ala Gly Leu Gln Val Ile Asn
 340 345 350

Leu Gly Leu Val Phe Arg Phe Ser Glu Val Val Val Tyr Ala Ala Leu
 355 360 365

Gly Gly Ala Val Trp Ile Ser Leu Ala Gln Val Leu Gly Leu Arg Arg
 370 375 380

Arg Leu His Arg Lys Asp Pro Gly Asp Gly Ala Arg Leu Ala Ala Thr
 385 390 395 400

Leu Arg Gly Leu Phe Phe Ser Val Tyr Ala Leu Gly Phe Gly Val Gly
 405 410 415

Val Leu Leu

<210> 85
 <211> 1305
 <212> DNA
 <213> Herpes Virus

<400> 85
 atgtggggcg tgacggaacc acccgcgtg ccatcacggc caaggcgcg gatgctccgc 60
 aacgacagcc accgggcccgt gtccccggag gacggccagg gacgggtcga cgacggacgg 120
 ccacacctcg cgtgcgtggg ggccctggcg cgggggttca tgcatactcg gcttcaggcc 180
 gccacgctgg gttttgcggg atcggtcgtt atgtcgcgcg ggccgtacgc gaatgccgcg 240
 tctggggcgt tcgccgtcgg gtgcgcctg ctgggcttta tgcgcgcacc cctccccctc 300
 gcgcggccca ccgcgcggat atacgcctgg ctcaaactgg cggccgggtg agcggccctt 360
 gttctgtgga gtctcgggga gcccggcacg cagccggggg ccccggcccc gggcccgggc 420
 acccagtgcc tggcactggg cgcgcctat gcggcgctcc tgggtgctcg cgatgacgtc 480
 tatccgctct ttctcctcgc cccggggccc ctgttcgtcg gcacctggg gatggtcgtc 540
 ggcgggctga cgatcggagg cagcgcgcgc tactgggtga tcgggtggcc cgcccgggcc 600
 gccctggccg cggcggtgtt ggccggcccg ggggcgacca ccgccaggga ctgcttttcc 660
 agggcttgcc ccgaccaccg ccgcgtctgt gtcacaccg caggcgagtc tctttccgc 720
 cggcccccg aggaccaga gcgaccggg gttcccgggc ccccgteccc cccgaccccc 780
 caacgatccc acgggcccgc ggccgatgag gtgcgaccgg ccagggtcgc gcggcccgaa 840
 aacgtctggg tgcccgtggt cactttctg ggggcgggcg cgcttgccgt caagacgggtg 900
 cgagaacatg cccggggaac gccgggcccc ggccctgccg tgtggcccca ggtgtttctc 960
 ggaggccatg tggcggtggc cctgacggag ctgtgtcagg cgcttcggcc ctgggacctt 1020
 acggaccgcg tgctgtttgt tcacgccgga ctgcaggtca tcaacctcgg gttggtgttt 1080
 cggttttccg aggttgctgt gtatgcggcg ctagggggtg ccgtgtggat ttcgttggcg 1140
 caggtgctgg ggctccggcg tcgcctgcac aggaaggacc ccggggacgg ggcccggttg 1200
 gcggcgacgc ttcggggcct cttcttctcc gtgtacgcgc tggggtttgg ggtgggggtg 1260
 ctgctgtgcc ctccggggtc aacgggcggg cggtcgggcg attga 1305

<210> 86
 <211> 434
 <212> PRT

<213> Herpes Virus

<400> 86

Met Trp Gly Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg
1 5 10 15
Gly Met Leu Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly
20 25 30
Gln Gly Arg Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala
35 40 45
Leu Ala Arg Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly
50 55 60
Phe Ala Gly Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala
65 70 75 80
Ser Gly Ala Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala
85 90 95
Pro Pro Pro Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys
100 105 110
Leu Ala Ala Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro
115 120 125
Gly Thr Gln Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu
130 135 140
Ala Leu Gly Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val
145 150 155 160
Tyr Pro Leu Phe Leu Leu Ala Pro Gly Pro Leu Phe Val Gly Thr Leu
165 170 175
Gly Met Val Val Gly Gly Leu Thr Ile Gly Gly Ser Ala Arg Tyr Trp
180 185 190
Trp Ile Gly Gly Pro Ala Ala Ala Ala Leu Ala Ala Ala Val Leu Ala
195 200 205
Gly Pro Gly Ala Thr Thr Ala Arg Asp Cys Phe Ser Arg Ala Cys Pro
210 215 220
Asp His Arg Arg Val Cys Val Ile Thr Ala Gly Glu Ser Leu Ser Arg
225 230 235 240
Arg Pro Pro Glu Asp Pro Glu Arg Pro Gly Val Pro Gly Pro Pro Ser
245 250 255
Pro Pro Thr Pro Gln Arg Ser His Gly Pro Pro Ala Asp Glu Val Ala
260 265 270
Pro Ala Arg Val Ala Arg Pro Glu Asn Val Trp Val Pro Val Val Thr
275 280 285
Phe Leu Gly Ala Gly Ala Leu Ala Val Lys Thr Val Arg Glu His Ala
290 295 300
Arg Gly Thr Pro Gly Pro Gly Leu Pro Leu Trp Pro Gln Val Phe Leu

Pro Glu Val Thr Pro Thr Ser Thr Pro Asn Pro Asn Asn Val Thr Gln
 50 55 60
 Asn Lys Thr Thr Pro Thr Glu Pro Ala Ser Pro Pro Thr Thr Pro Lys
 65 70 75 80
 Pro Thr Ser Thr Pro Lys Ser Pro Pro Thr Ser Thr Pro Asp Pro Lys
 85 90 95
 Pro Lys Asn Asn Thr Thr Pro Ala Lys Ser Gly Arg Pro Thr Lys Pro
 100 105 110
 Pro Gly Pro Val Trp Cys Asp Arg Arg Asp Pro Leu Ala Arg Tyr Gly
 115 120 125
 Ser Arg Val Gln Ile Arg Cys Arg Phe Arg Asn Ser Thr Arg Met Glu
 130 135 140
 Phe Arg Leu Gln Ile Trp Arg Tyr Ser Met Gly Pro Ser Pro Pro Ile
 145 150 155 160
 Ala Pro Ala Pro Asp Leu Glu Glu Val Leu Thr Asn Ile Thr Ala Pro
 165 170 175
 Pro Gly Gly Leu Leu Val Tyr Asp Ser Ala Pro Asn Leu Thr Asp Pro
 180 185 190
 His Val Leu Trp Ala Glu Gly Ala Gly Pro Gly Ala Asp Pro Pro Leu
 195 200 205
 Tyr Ser Val Thr Gly Pro Leu Pro Thr Gln Arg Leu Ile Ile Gly Glu
 210 215 220
 Val Thr Pro Ala Thr Gln Gly Met Tyr Tyr Leu Ala Trp
 225 230 235

<210> 89
 <211> 1536
 <212> DNA
 <213> Herpes Virus

<400> 89
 atggccccgg ggcgggtggg ccttgccgtg gtectgtgga gcctgttgtg gctcggggcg 60
 ggggtgtccg ggggctcgga aactgcctcc accgggcccc cgatcaccgc gggagcgggtg 120
 acgaacgcga gcgaggcccc cacatcgggg tccccgggt cagccgccag cccggagggtc 180
 acccccacat cgaccccaaa cccaacaat gtcacacaaa acaaaaccac cccacccgag 240
 ccggccagcc cccaacaac cccaagccc acctccacgc ccaaaagccc cccacgtcc 300
 acccccgacc ccaaacccaa gaacaacacc acccccgcca agtcggggccg cccactaaa 360
 cccccgggc ccgtgtggtg cgaccgccgc gaccatttg cccggtacgg ctccgagggtg 420
 cagatccgat gccggtttcg gaattccacc cgcattggagt tccgcctcca gatatggcgt 480
 tactccatgg gtccgtcccc cccaatcgct ccggctcccc acctagagga ggtcctgacg 540
 aacatcacccg cccaccccg gggactcctg gtgtacgaca gcgccccaa cctaaccggac 600
 cccacgtgc tctgggcgga gggggccggc ccgggcgccg accctccgtt gtattctgtc 660
 accgggccgc tgccgaccga gcgggtgatt atcggcgagg tgacgcccgc gaccagggga 720
 atgtattact tggcctgggg ccggatggac agcccgcacg agtacgggac gtgggtgcgc 780
 gtccgcattg tccgcccccc gtctctgacc ctccagcccc acgcggtgat ggagggtcag 840
 ccgttcaagg cgacgtgcac ggccgcgcgc tactaccgcg gtaaccccg ggagtttgtc 900
 tggttcgagg acgaccacca ggtgtttaac ccgggccaga tcgacacgca gacgcacgag 960
 caccgccagc ggttcaccac agtctctacc gtgacctccg aggctgtcgg cggccagggtc 1020

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ccccgcgga ccttcacctg ccagatgacg tggcatcgcg actccgtgac gttctcgcga 1080
cgcaatgcc a cggggtggc cctgggtgctg ccgcggccaa ccatcaccat ggaatttggg 1140
gtccgcattg tggctctgcac ggccgggtgc gtccccgagg gcgtgacgtt tgcctgggtc 1200
ctgggggacg acccctcacc ggcggctaag tcggccgtta cggcccagga gtcgtgcgac 1260
caccgcgggc tggctacggg cgggtccacc ctgcccattt cgtacgacta cagcgagtac 1320
atctgtcggg tgaccggata tccggccggg attcccgttc tagaacacca cggcagtcac 1380
cagccccac ccagggaccc caccgagcgg caggtgatcg aggcgatcga gtgggtgggg 1440
attggaatcg gggttctcgc ggcgggggtc ctggtcgtaa cggcaatcgt gtacgtcgtc 1500
cgcacatcac agtcgcggca gcgtcatcgg cggtaa 1536

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<210> 90
 <211> 511
 <212> PRT
 <213> Herpes Virus

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<400> 90
Met Ala Pro Gly Arg Val Gly Leu Ala Val Val Leu Trp Ser Leu Leu
  1           5           10           15

Trp Leu Gly Ala Gly Val Ser Gly Gly Ser Glu Thr Ala Ser Thr Gly
      20           25           30

Pro Thr Ile Thr Ala Gly Ala Val Thr Asn Ala Ser Glu Ala Pro Thr
      35           40           45

Ser Gly Ser Pro Gly Ser Ala Ala Ser Pro Glu Val Thr Pro Thr Ser
      50           55           60

Thr Pro Asn Pro Asn Asn Val Thr Gln Asn Lys Thr Thr Pro Thr Glu
      65           70           75           80

Pro Ala Ser Pro Pro Thr Thr Pro Lys Pro Thr Ser Thr Pro Lys Ser
      85           90           95

Pro Pro Thr Ser Thr Pro Asp Pro Lys Pro Lys Asn Asn Thr Thr Pro
      100          105          110

Ala Lys Ser Gly Arg Pro Thr Lys Pro Pro Gly Pro Val Trp Cys Asp
      115          120          125

Arg Arg Asp Pro Leu Ala Arg Tyr Gly Ser Arg Val Gln Ile Arg Cys
      130          135          140

Arg Phe Arg Asn Ser Thr Arg Met Glu Phe Arg Leu Gln Ile Trp Arg
      145          150          155          160

Tyr Ser Met Gly Pro Ser Pro Pro Ile Ala Pro Ala Pro Asp Leu Glu
      165          170          175

Glu Val Leu Thr Asn Ile Thr Ala Pro Pro Gly Gly Leu Leu Val Tyr
      180          185          190

Asp Ser Ala Pro Asn Leu Thr Asp Pro His Val Leu Trp Ala Glu Gly
      195          200          205

Ala Gly Pro Gly Ala Asp Pro Pro Leu Tyr Ser Val Thr Gly Pro Leu
      210          215          220

Pro Thr Gln Arg Leu Ile Ile Gly Glu Val Thr Pro Ala Thr Gln Gly
      225          230          235          240

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Met Tyr Tyr Leu Ala Trp Gly Arg Met Asp Ser Pro His Glu Tyr Gly
 245 250 255
 Thr Trp Val Arg Val Arg Met Phe Arg Pro Pro Ser Leu Thr Leu Gln
 260 265 270
 Pro His Ala Val Met Glu Gly Gln Pro Phe Lys Ala Thr Cys Thr Ala
 275 280 285
 Ala Ala Tyr Tyr Pro Arg Asn Pro Val Glu Phe Val Trp Phe Glu Asp
 290 295 300
 Asp His Gln Val Phe Asn Pro Gly Gln Ile Asp Thr Gln Thr His Glu
 305 310 315 320
 His Pro Asp Gly Phe Thr Thr Val Ser Thr Val Thr Ser Glu Ala Val
 325 330 335
 Gly Gly Gln Val Pro Pro Arg Thr Phe Thr Cys Gln Met Thr Trp His
 340 345 350
 Arg Asp Ser Val Thr Phe Ser Arg Arg Asn Ala Thr Gly Leu Ala Leu
 355 360 365
 Val Leu Pro Arg Pro Thr Ile Thr Met Glu Phe Gly Val Arg Ile Val
 370 375 380
 Val Cys Thr Ala Gly Cys Val Pro Glu Gly Val Thr Phe Ala Trp Phe
 385 390 395 400
 Leu Gly Asp Asp Pro Ser Pro Ala Ala Lys Ser Ala Val Thr Ala Gln
 405 410 415
 Glu Ser Cys Asp His Pro Gly Leu Ala Thr Val Arg Ser Thr Leu Pro
 420 425 430
 Ile Ser Tyr Asp Tyr Ser Glu Tyr Ile Cys Arg Leu Thr Gly Tyr Pro
 435 440 445
 Ala Gly Ile Pro Val Leu Glu His His Gly Ser His Gln Pro Pro Pro
 450 455 460
 Arg Asp Pro Thr Glu Arg Gln Val Ile Glu Ala Ile Glu Trp Val Gly
 465 470 475 480
 Ile Gly Ile Gly Val Leu Ala Ala Gly Val Leu Val Val Thr Ala Ile
 485 490 495
 Val Tyr Val Val Arg Thr Ser Gln Ser Arg Gln Arg His Arg Arg
 500 505 510

<210> 91

<211> 843

<212> DNA

<213> Herpes Virus

<400> 91

gatgagtacg aggatctgta ctacaccccg tcttcaggta tggcgagtcc cgatagtccg 60
 cctgacacct cccgccgtgg cgccctacag acacgctcgc gccagagggg cgaggtccgt 120

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ttcgtccagt acgacgagtc ggattatgcc ctctacgggg gctcgtcatc cgaagacgac 180
gaacaccccg aggtcccccg gacgcggcgt cccgtttccg gggcggtttt gtccggcccc 240
gggcctgcgc gggcgccctcc gccacccgct gggtcgggag gggccgggac cacacccacc 300
accgcccccc gggccccccg aaccacgcgg gtggcgacta aggccccgcg ggccccggcg 360
gcggagacca cccgcggcag gaaatcggcc cagccagaat ccgccgcact cccagacgcc 420
cccgcgtcga cggcgccaac ccgatccaag acaccgcgc aggggctggc cagaaagctg 480
cactttagca ccgccccccc aaaccccgac gcgccatgga cccccgggt ggccggcttt 540
aacaagcgcg tcttctgcgc cgcggtcggg cgcttgccg ccatgcatgc ccgatggcg 600
gcggtccagc tctgggacat gtcggtcgc cgcacagac aagacctcaa cgaactcctt 660
ggcatcacca ccatccgcgt gacggtctgc gagggcaaaa acctgcttca gcgcgccaac 720
gagttggtga atccagacgt ggtgcaggac gtcgacgcgg ccacggcgac tcgagggcgt 780
tctgcggcgt cgcgccccac cgagcgacct cgagccccag cccgctccgc ttctcgcgcc 840
aga 843

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<210> 92
<211> 281
<212> PRT
<213> Herpes Virus

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<400> 92
Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
 1             5             10             15

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
      20             25             30

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
      35             40             45

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
 50             55             60

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
 65             70             75             80

Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
      85             90             95

Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg Val Ala
    100             105             110

Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
    115             120             125

Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
    130             135             140

Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
    145             150             155             160

His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
      165             170             175

Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
    180             185             190

Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
    195             200             205

Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr

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210 215 220
 Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn
 225 230 235 240
 Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala Thr Ala
 245 250 255
 Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro Arg Ala
 260 265 270
 Pro Ala Arg Ser Ala Ser Arg Pro Arg
 275 280

<210> 93
 <211> 906
 <212> DNA
 <213> Herpes Virus

<400> 93
 atgacctctc gccgctccgt gaagtcgggt ccgcgggagg ttccgcgcga tgagtacgag 60
 gatctgtact acaccccgtc ttcaggtatg gcgagtcctc atagtccgcc tgacacctcc 120
 cgccgtggcg ccctacagac acgctcgcgc cagaggggag aggtccgttt cgtccagtac 180
 gacgagtcgg attatgccct ctacgggggc tcgtcatccg aagacgacga acacccggag 240
 gtcccccgga cgcggcgtcc cgtttccggg gcggttttgt ccggccccggg gcctgcgcgg 300
 gcgcctccgc caccgctgg gtccggaggg gccggacgca caccaccac cgcccccg 360
 gcccccgaa ccagcgggt ggcgactaag gcccccgcg ccccgcggc ggagaccacc 420
 cgcggcagga aatcggccca gccagaatcc gccgcactcc cagacgcccc cgcgtcgacg 480
 gcgccaaccc gatccaagac acccgcgag gggctggcca gaaagctgca ctttagcacc 540
 gccccccaa acccgacgc gccatggacc ccccggtgg ccggctttaa caagcgctc 600
 ttctgcgcgc cggtcggcg cctggcgccc atgcatgcc ggatggcggc ggtccagctc 660
 tgggacatgt cggtccgcg cacagacgaa gacctcaacg aactccttgg catcaccacc 720
 atccgcgtga cggctgcga gggcaaaac ctgcttcagc gcgccaacga gttggtgaat 780
 ccagacgtgg tgcaggacgt cgacgcggcc acggcgactc gagggcgctc tgcggcgctc 840
 cgccccaccg agcgacctcg agccccagcc cgctccgctt ctgccccag acggcccgctc 900
 gactga 906

<210> 94
 <211> 301
 <212> PRT
 <213> Herpes Virus

<400> 94
 Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val Pro Arg
 1 5 10 15
 Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
 20 25 30
 Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
 35 40 45
 Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
 50 55 60
 Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
 65 70 75 80
 Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro

85					90					95					
Gly	Pro	Ala	Arg	Ala	Pro	Pro	Pro	Pro	Ala	Gly	Ser	Gly	Gly	Ala	Gly
			100					105					110		
Arg	Thr	Pro	Thr	Thr	Ala	Pro	Arg	Ala	Pro	Arg	Thr	Gln	Arg	Val	Ala
		115					120					125			
Thr	Lys	Ala	Pro	Ala	Ala	Pro	Ala	Ala	Glu	Thr	Thr	Arg	Gly	Arg	Lys
		130					135					140			
Ser	Ala	Gln	Pro	Glu	Ser	Ala	Ala	Leu	Pro	Asp	Ala	Pro	Ala	Ser	Thr
		145					150					155			160
Ala	Pro	Thr	Arg	Ser	Lys	Thr	Pro	Ala	Gln	Gly	Leu	Ala	Arg	Lys	Leu
			165						170					175	
His	Phe	Ser	Thr	Ala	Pro	Pro	Asn	Pro	Asp	Ala	Pro	Trp	Thr	Pro	Arg
			180					185					190		
Val	Ala	Gly	Phe	Asn	Lys	Arg	Val	Phe	Cys	Ala	Ala	Val	Gly	Arg	Leu
		195					200					205			
Ala	Ala	Met	His	Ala	Arg	Met	Ala	Ala	Val	Gln	Leu	Trp	Asp	Met	Ser
		210					215					220			
Arg	Pro	Arg	Thr	Asp	Glu	Asp	Leu	Asn	Glu	Leu	Leu	Gly	Ile	Thr	Thr
		225				230					235				240
Ile	Arg	Val	Thr	Val	Cys	Glu	Gly	Lys	Asn	Leu	Leu	Gln	Arg	Ala	Asn
			245						250					255	
Glu	Leu	Val	Asn	Pro	Asp	Val	Val	Gln	Asp	Val	Asp	Ala	Ala	Thr	Ala
		260					265					270			
Thr	Arg	Gly	Arg	Ser	Ala	Ala	Ser	Arg	Pro	Thr	Glu	Arg	Pro	Arg	Ala
		275					280					285			
Pro	Ala	Arg	Ser	Ala	Ser	Arg	Pro	Arg	Arg	Pro	Val	Glu			
		290					295				300				

<210> 95

<211> 1023

<212> DNA

<213> Herpes Virus

<400> 95

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tacaacgtac agccgatgc gggggggacc gtgcaggggt tcgcatcgga actgctgggg 720
cggatagtcg cgtgcatcga aaccacttt cccgaacacg ccggcgaata tcaggccgta 780

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<210> 96
 <211> 341
 <212> PRT
 <213> Herpes Virus

<400> 96
 Asp Trp Phe Pro Cys Tyr Asp Asp Ala Gly Asp Glu Glu Trp Ala Glu
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 20 25 30
 Ala Tyr Phe Asp Leu Cys His Glu Val Gly Pro Thr Ala Glu Pro Arg
 35 40 45
 Glu Thr Asp Ser Pro Val Cys Ser Cys Thr Asp Lys Ile Gly Leu Arg
 50 55 60
 Val Cys Met Pro Val Pro Ala Pro Tyr Val Val His Gly Ser Leu Thr
 65 70 75 80
 Met Arg Gly Val Ala Arg Val Ile Gln Gln Ala Val Leu Leu Asp Arg
 85 90 95
 Asp Phe Val Glu Ala Ile Gly Ser Tyr Val Lys Asn Phe Leu Leu Ile
 100 105 110
 Asp Thr Gly Val Tyr Ala His Gly His Ser Leu Arg Leu Pro Tyr Phe
 115 120 125
 Ala Lys Ile Ala Pro Asp Gly Pro Ala Cys Gly Arg Leu Leu Pro Val
 130 135 140
 Phe Val Ile Pro Pro Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala
 145 150 155 160
 His Ala Asp Pro Arg Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu
 165 170 175
 Ala Ser Pro Arg Glu Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr
 180 185 190
 Val Ser Phe Phe Glu Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe
 195 200 205
 Gly Arg Arg Glu Thr Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln
 210 215 220
 Pro Asp Ala Gly Gly Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly
 225 230 235 240
 Arg Ile Val Ala Cys Ile Glu Thr His Phe Pro Glu His Ala Gly Glu
 245 250 255

Tyr Gln Ala Val Ser Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val
 260 265 270
 Leu Leu Gln Leu Val Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser
 275 280 285
 Cys Leu Arg Phe Lys His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr
 290 295 300
 Phe Val Ala Leu Ser Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu
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 Cys Gln Gln Cys Phe Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr
 325 330 335
 Leu Phe Thr Ile Asp
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<210> 97
 <211> 3177
 <212> DNA
 <213> Herpes Virus

<400> 97
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 cacatcgccg ccacctgga cgcggaggcc acgttcgcgc tgcattgcga catgatcctg 480
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cagcagtgtt ttgccgcaa atgcgacagc aaccgcctgc acacgctgtt taccattgac 3120
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<210> 98
<211> 1058
<212> PRT
<213> Herpes Virus

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<400> 98
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Pro Val Glu Val Thr Ala Leu Tyr Ala Thr Asp Gly Cys Val Ile Thr
          20              25              30

Ser Ser Ile Ala Leu Leu Thr Asn Ser Leu Leu Gly Ala Glu Pro Val
  35              40              45

Tyr Ile Phe Ser Tyr Asp Ala Tyr Thr His Asp Gly Arg Ala Asp Gly
  50              55              60

Pro Thr Glu Gln Asp Arg Phe Glu Glu Ser Arg Ala Leu Tyr Gln Ala
  65              70              75              80

Ser Gly Gly Leu Asn Gly Asp Ser Phe Arg Val Thr Phe Cys Leu Leu
          85              90              95

Gly Thr Glu Val Gly Gly Thr His Gln Ala Arg Gly Arg Thr Arg Pro
  100              105              110

Met Phe Val Cys Arg Phe Glu Arg Ala Asp Asp Val Ala Ala Leu Gln
  115              120              125

Asp Ala Leu Ala His Gly Thr Pro Leu Gln Pro Asp His Ile Ala Ala
  130              135              140

Thr Leu Asp Ala Glu Ala Thr Phe Ala Leu His Ala Asn Met Ile Leu
  145              150              155              160

Ala Leu Thr Val Ala Ile Asn Asn Ala Ser Pro Arg Thr Gly Arg Asp
          165              170              175

Ala Ala Ala Ala Gln Tyr Asp Gln Gly Ala Ser Leu Arg Ser Leu Val
  180              185              190

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Gly Arg Thr Ser Leu Gly Gln Arg Gly Leu Thr Thr Leu Tyr Val His
 195 200 205
 His Glu Val Arg Val Leu Ala Ala Tyr Arg Arg Ala Tyr Tyr Gly Ser
 210 215 220
 Ala Gln Ser Pro Phe Trp Phe Leu Ser Lys Phe Gly Pro Asp Glu Lys
 225 230 235 240
 Ser Leu Val Leu Thr Thr Arg Tyr Tyr Leu Leu Gln Ala Gln Arg Leu
 245 250 255
 Gly Gly Ala Gly Ala Thr Tyr Asp Leu Gln Ala Ile Lys Asp Ile Cys
 260 265 270
 Ala Thr Tyr Ala Ile Pro His Ala Pro Arg Pro Asp Thr Val Ser Ala
 275 280 285
 Ala Ser Leu Thr Ser Phe Ala Ala Ile Thr Arg Phe Cys Cys Thr Ser
 290 295 300
 Gln Tyr Ala Arg Gly Ala Ala Ala Ala Gly Phe Pro Leu Tyr Val Glu
 305 310 315 320
 Arg Arg Ile Ala Ala Asp Val Arg Glu Thr Ser Ala Leu Glu Lys Phe
 325 330 335
 Ile Thr His Asp Arg Ser Cys Leu Arg Val Ser Asp Arg Glu Phe Ile
 340 345 350
 Thr Tyr Ile Tyr Leu Ala His Phe Glu Cys Phe Ser Pro Pro Arg Leu
 355 360 365
 Ala Thr His Leu Arg Ala Val Thr Thr His Asp Pro Asn Pro Ala Ala
 370 375 380
 Ser Thr Glu Gln Pro Ser Pro Leu Gly Arg Glu Ala Val Glu Gln Phe
 385 390 395 400
 Phe Cys His Val Arg Ala Gln Leu Asn Ile Gly Glu Tyr Val Lys His
 405 410 415
 Asn Val Thr Pro Arg Glu Thr Val Leu Asp Gly Asp Thr Ala Lys Ala
 420 425 430
 Tyr Leu Arg Ala Arg Thr Tyr Ala Pro Gly Ala Leu Thr Pro Ala Pro
 435 440 445
 Ala Tyr Cys Gly Ala Val Asp Ser Ala Thr Lys Met Met Gly Arg Leu
 450 455 460
 Ala Asp Ala Glu Lys Leu Leu Val Pro Arg Gly Trp Pro Ala Phe Ala
 465 470 475 480
 Pro Ala Ser Pro Gly Glu Asp Thr Ala Gly Gly Thr Pro Pro Pro Gln
 485 490 495
 Thr Cys Gly Ile Val Lys Arg Leu Leu Arg Leu Ala Ala Thr Glu Gln
 500 505 510
 Gln Gly Pro Thr Pro Pro Ala Ile Ala Ala Leu Ile Arg Asn Ala Ala

515					520					525					
Val	Gln	Thr	Pro	Leu	Pro	Val	Tyr	Arg	Ile	Ser	Met	Val	Pro	Thr	Gly
530						535					540				
Gln	Ala	Phe	Ala	Ala	Leu	Ala	Trp	Asp	Asp	Trp	Ala	Arg	Ile	Thr	Arg
545					550					555					560
Asp	Ala	Arg	Leu	Ala	Glu	Ala	Val	Val	Ser	Ala	Glu	Ala	Ala	Ala	His
				565					570					575	
Pro	Asp	His	Gly	Ala	Leu	Gly	Arg	Arg	Leu	Thr	Asp	Arg	Ile	Arg	Ala
			580				585						590		
Gln	Gly	Pro	Val	Met	Pro	Pro	Gly	Gly	Leu	Asp	Ala	Gly	Gly	Gln	Met
		595					600					605			
Tyr	Val	Asn	Arg	Asn	Glu	Ile	Phe	Asn	Gly	Ala	Leu	Ala	Ile	Thr	Asn
	610					615					620				
Ile	Ile	Leu	Asp	Leu	Asp	Ile	Ala	Leu	Lys	Glu	Pro	Val	Pro	Phe	Arg
625				630						635					640
Arg	Leu	His	Glu	Ala	Leu	Gly	His	Phe	Arg	Arg	Gly	Ala	Leu	Ala	Ala
				645					650					655	
Val	Gln	Leu	Leu	Phe	Pro	Ala	Ala	Arg	Val	Asp	Pro	Asp	Ala	Tyr	Pro
			660					665					670		
Cys	Tyr	Phe	Phe	Lys	Ser	Ala	Cys	Arg	Pro	Gly	Pro	Ala	Ser	Val	Gly
		675					680					685			
Ser	Gly	Ser	Gly	Leu	Gly	Asn	Asp	Asp	Asp	Gly	Asp	Trp	Phe	Pro	Cys
	690					695					700				
Tyr	Asp	Asp	Ala	Gly	Asp	Glu	Glu	Trp	Ala	Glu	Asp	Pro	Gly	Ala	Met
705				710						715					720
Asp	Thr	Ser	His	Asp	Pro	Pro	Asp	Asp	Glu	Val	Ala	Tyr	Phe	Asp	Leu
				725					730					735	
Cys	His	Glu	Val	Gly	Pro	Thr	Ala	Glu	Pro	Arg	Glu	Thr	Asp	Ser	Pro
			740					745					750		
Val	Cys	Ser	Cys	Thr	Asp	Lys	Ile	Gly	Leu	Arg	Val	Cys	Met	Pro	Val
		755					760					765			
Pro	Ala	Pro	Tyr	Val	Val	His	Gly	Ser	Leu	Thr	Met	Arg	Gly	Val	Ala
				770		775					780				
Arg	Val	Ile	Gln	Gln	Ala	Val	Leu	Leu	Asp	Arg	Asp	Phe	Val	Glu	Ala
785				790						795					800
Ile	Gly	Ser	Tyr	Val	Lys	Asn	Phe	Leu	Leu	Ile	Asp	Thr	Gly	Val	Tyr
				805					810					815	
Ala	His	Gly	His	Ser	Leu	Arg	Leu	Pro	Tyr	Phe	Ala	Lys	Ile	Ala	Pro
			820					825					830		
Asp	Gly	Pro	Ala	Cys	Gly	Arg	Leu	Leu	Pro	Val	Phe	Val	Ile	Pro	Pro
		835					840					845			

Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala His Ala Asp Pro Arg
 850 855 860
 Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu Ala Ser Pro Arg Glu
 865 870 875 880
 Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr Val Ser Phe Phe Glu
 885 890 895
 Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe Gly Arg Arg Glu Thr
 900 905 910
 Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln Pro Asp Ala Gly Gly
 915 920 925
 Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly Arg Ile Val Ala Cys
 930 935 940
 Ile Glu Thr His Phe Pro Glu His Ala Gly Glu Tyr Gln Ala Val Ser
 945 950 955 960
 Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val Leu Leu Gln Leu Val
 965 970 975
 Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser Cys Leu Arg Phe Lys
 980 985 990
 His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr Phe Val Ala Leu Ser
 995 1000 1005
 Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu Cys Gln Gln Cys Phe
 1010 1015 1020
 Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr Leu Phe Thr Ile Asp
 1025 1030 1035 1040
 Ala Gly Thr Pro Cys Ser Pro Ser Val Pro Cys Ser Thr Ser Gln Pro
 1045 1050 1055
 Ser Ser

<210> 99
 <211> 701
 <212> DNA
 <213> Herpes Virus

<400> 99
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 ctgccgctgc gccccagga cccattatc gggacgaccg cggctgtgct ggataacctc 420
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 gtcattcttg ccaggctcgc caaccgcgtc gacgctggcg tcgcggagat cgactacgcg 600
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ggcctgatcg aaatcctaga cacgcaccgc caggagtgtt c

701

<210> 100
<211> 233
<212> PRT
<213> Herpes Virus

<400> 100
Leu Val Leu Arg Ser Ile Ser Glu Arg Ala Ala Val Asp Arg Ile Ser
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Glu Ser Phe Gly Arg Ser Ala Gln Val Met His Asp Pro Phe Gly Gly
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Gln Pro Phe Pro Ala Ala Asn Ser Pro Trp Ala Pro Val Leu Ala Gly
35 40 45
Gln Gly Gly Pro Phe Asp Ala Glu Thr Arg Arg Val Ser Trp Glu Thr
50 55 60
Leu Val Ala His Gly Pro Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro
65 70 75 80
Arg Ala Ala Ser Thr Ala Lys Ala Met Arg Asp Cys Val Leu Arg Gln
85 90 95
Glu Asn Phe Ile Glu Ala Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp
100 105 110
Cys Lys Met Cys Ile His His Asn Leu Pro Leu Arg Pro Gln Asp Pro
115 120 125
Ile Ile Gly Thr Thr Ala Ala Val Leu Asp Asn Leu Ala Thr Arg Leu
130 135 140
Arg Pro Phe Leu Gln Cys Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu
145 150 155 160
Asp Glu Leu Cys Ser Arg Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala
165 170 175
Ser Phe Val Phe Val Ile Leu Ala Arg Leu Ala Asn Arg Val Glu Arg
180 185 190
Gly Val Ala Glu Ile Asp Tyr Ala Thr Leu Gly Val Gly Val Gly Glu
195 200 205
Lys Met His Phe Tyr Leu Pro Gly Ala Cys Met Ala Gly Leu Ile Glu
210 215 220
Ile Leu Asp Thr His Arg Gln Glu Cys
225 230

<210> 101
<211> 1539
<212> DNA
<213> Herpes Virus

<400> 101


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<210> 102
 <211> 512
 <212> PRT
 <213> Herpes Virus

<400> 102
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 20 25 30
 Asp Asp Leu Glu Ser Asp Ser Ser Gly Glu Cys Ser Ser Ser Asp Glu
 35 40 45
 Asp Met Glu Asp Pro His Gly Glu Asp Gly Pro Glu Pro Ile Leu Asp
 50 55 60
 Ala Ala Arg Pro Ala Val Arg Pro Ser Arg Pro Glu Asp Pro Gly Val
 65 70 75 80
 Pro Ser Thr Gln Thr Pro Arg Pro Thr Glu Arg Gln Gly Pro Asn Asp
 85 90 95
 Pro Gln Pro Ala Pro His Ser Val Trp Ser Arg Leu Gly Ala Arg Arg
 100 105 110
 Pro Ser Cys Ser Pro Glu Gln His Gly Gly Lys Val Ala Arg Leu Gln
 115 120 125
 Pro Pro Pro Thr Lys Ala Gln Pro Ala Arg Gly Gly Arg Arg Gly Arg
 130 135 140

Arg Arg Gly Arg Gly Arg Gly Gly Pro Gly Ala Ala Asp Gly Leu Ser
 145 150 155 160
 Asp Pro Arg Arg Arg Ala Pro Arg Thr Asn Arg Asn Pro Gly Gly Pro
 165 170 175
 Arg Pro Gly Ala Gly Trp Thr Asp Gly Pro Gly Ala Pro His Gly Glu
 180 185 190
 Ala Trp Arg Gly Ser Glu Gln Pro Asp Pro Pro Gly Gly Gln Arg Thr
 195 200 205
 Arg Gly Val Arg Gln Ala Pro Pro Pro Leu Met Thr Leu Ala Ile Ala
 210 215 220
 Pro Pro Pro Ala Asp Pro Arg Ala Pro Ala Pro Glu Arg Lys Ala Pro
 225 230 235 240
 Ala Ala Asp Thr Ile Asp Ala Thr Thr Arg Leu Val Leu Arg Ser Ile
 245 250 255
 Ser Glu Arg Ala Ala Val Asp Arg Ile Ser Glu Ser Phe Gly Arg Ser
 260 265 270
 Ala Gln Val Met His Asp Pro Phe Gly Gly Gln Pro Phe Pro Ala Ala
 275 280 285
 Asn Ser Pro Trp Ala Pro Val Leu Ala Gly Gln Gly Gly Pro Phe Asp
 290 295 300
 Ala Glu Thr Arg Arg Val Ser Trp Glu Thr Leu Val Ala His Gly Pro
 305 310 315 320
 Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro Arg Ala Ala Ser Thr Ala
 325 330 335
 Lys Ala Met Arg Asp Cys Val Leu Arg Gln Glu Asn Phe Ile Glu Ala
 340 345 350
 Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp Cys Lys Met Cys Ile His
 355 360 365
 His Asn Leu Pro Leu Arg Pro Gln Asp Pro Ile Ile Gly Thr Thr Ala
 370 375 380
 Ala Val Leu Asp Asn Leu Ala Thr Arg Leu Arg Pro Phe Leu Gln Cys
 385 390 395 400
 Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu Asp Glu Leu Cys Ser Arg
 405 410 415
 Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala Ser Phe Val Phe Val Ile
 420 425 430
 Leu Ala Arg Leu Ala Asn Arg Val Glu Arg Gly Val Ala Glu Ile Asp
 435 440 445
 Tyr Ala Thr Leu Gly Val Gly Val Gly Glu Lys Met His Phe Tyr Leu
 450 455 460
 Pro Gly Ala Cys Met Ala Gly Leu Ile Glu Ile Leu Asp Thr His Arg

Asp Asp Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu
 100 105 110
 Tyr Ala Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile
 115 120 125
 Gly Ala Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly
 130 135 140
 Ile Arg Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala
 145 150 155 160
 Glu Glu Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg
 165 170 175
 Gly Gly Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly
 180 185 190
 Phe Thr Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe
 195 200 205
 Asp Ser Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly
 210 215 220
 Trp Tyr Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp
 225 230 235 240
 His Pro Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val
 245 250 255
 Thr Cys Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu
 260 265 270
 Ser Arg Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser
 275 280 285
 Arg Gln Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile
 290 295 300
 His Arg Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp
 305 310 315 320
 Ile Cys Leu Gly

<210> 105
 <211> 1446
 <212> DNA
 <213> Herpes Virus

<400> 105
 atggcctgtc gtaagttttg tcgcgttttac gggggacagg gcaggaggaa ggaggaggcc 60
 gtcccgcgag agacaaagcc gtcccgggtg tttcctcatg gccccttta taccacagcc 120
 gaggacgcgt gcctggactc cccgcccccg gagaccccca aaccttccca caccacacca 180
 cccagcagagg ccgagcgcct gtgtcatctg caggagatcc ttgccagat gtacggaaac 240
 caggactacc ccatagagga cgaccccgag gcggatgccg cggacgatgt cgacgaggac 300
 gccccggacg acgtggccta tccggaggaa tacgcagagg agctttttct gcccggggac 360
 gcgaccggtc cccttatcgg ggccaacgac cacatccctc ccccggtgtg cgcattctcc 420
 cccggtatac gacgacgcag ccgggatgag attggggcca cgggatttac cgcggaagag 480
 ctggacgccca tggacaggga ggcggctcga gccatcagcc gcggcggaac gcccctctcg 540

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accatggcca agctgggtgac tggcatgggc tttacgatcc acggagcgct caccacagga 600
tcggaggggt gtgtctttga cagcagccat ccagattacc cccaacgggt aatcgtgaag 660
gcgggggtggt acacgagcac gagccacgag gcgcgactgc tgaggcgact ggaccacccg 720
gcgatcctgc cctcctgga cctgcatgtc gtctccgggg tcacgtgtct ggtcctcccc 780
aagtaccagg ccgacctgta tacctatctg agtaggcgcc tgaaccact gggacgcccg 840
cagategcag cggctctccc gcagctccta agcgccgttg actacattca ccgccagggc 900
attatccacc gcgacattaa gaccgaaaat atttttatta acaccccga ggacatttgc 960
ctgggggact ttggcgccgc gtgcttcgtg cagggttccc gatcaagccc cttcccctac 1020
ggaatcgccg gaaccatcga caccaacgcc cccgaggtcc tggccgggga tccgtatacc 1080
acgaccgtcg acatttgag cgccggtctg gtgatcttcg agactgccgt ccacaacgcg 1140
tccttgttct cggccccccg cgccccaaa aggggcccgt gcgacagtca gatcaccgcg 1200
atcatccgac agggccaggt ccacgttgac gagttttccc cgcattccaga atcgcgctc 1260
acctcgcgct accgctcccg cgcgccggg aacaatcgcc cgccgtacac ccgaccggcc 1320
tggaccgct actacaagat ggacatagac gtcgaatatc tggtttgcaa agccctcacc 1380
ttcgaaggcg cgcttcgccc cagcgccgca gagctgcttt gtttgccgct gtttcaacag 1440
aatga 1446

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<210> 106
<211> 481
<212> PRT
<213> Herpes Virus

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<400> 106
Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly Arg Arg
  1             5             10             15

Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val Phe Pro
          20             25             30

His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp Ser Pro
      35             40             45

Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser Glu Ala
  50             55             60

Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr Gly Asn
  65             70             75             80

Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala Asp Asp
      85             90             95

Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu Tyr Ala
          100             105             110

Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile Gly Ala
      115             120             125

Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly Ile Arg
      130             135             140

Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala Glu Glu
      145             150             155             160

Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg Gly Gly
          165             170             175

Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly Phe Thr
          180             185             190

Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe Asp Ser

```


<400> 107
gtctggcatc tggggctttt gggaagcctc gtgggggctg ttcttgccgc caccatcgg 60
ggacctgagg ccaacacaaac ggaccctta acgcacgccc cagtgtcccc tcacccagc 120
cccctggggg gctttgccgt cccctcgta gtcggtgggc tgtgcgccgt agtcctgggg 180
gcggcatgtc tgcttgagct cctgcgtcgt acgtgccgcg ggtgggggag ttaccatccc 240
tacatggacc cagttgtcgt a 261

<210> 108
<211> 87
<212> PRT
<213> Herpes Virus

<400> 108
Val Trp His Leu Gly Leu Leu Gly Ser Leu Val Gly Ala Val Leu Ala
1 5 10 15
Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr Asp Pro Leu Thr His
20 25 30
Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly Gly Phe Ala Val Pro
35 40 45
Leu Val Val Gly Gly Leu Cys Ala Val Val Leu Gly Ala Ala Cys Leu
50 55 60
Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp Gly Arg Tyr His Pro
65 70 75 80
Tyr Met Asp Pro Val Val Val
85

<210> 109
<211> 279
<212> DNA
<213> Herpes Virus

<400> 109
atgtctctgc gcgcagtctg gcatctgggg cttttgggaa gcctcgtggg ggctgttctt 60
gccgccaccc atcggggacc tgcggccaac acaacggacc ccttaacgca cgcgccagtg 120
tcccctcacc ccagccccct ggggggcttt gccgtcccc tcgtagtcgg tgggctgtgc 180
gccgtagtcc tgggggcggc atgtctgctt gagctcctgc gtcgtacgtg ccgcggggtg 240
ggcggttacc atccctacat ggaccagtt gtcgtataa 279

<210> 110
<211> 92
<212> PRT
<213> Herpes Virus

<400> 110
Met Ser Leu Arg Ala Val Trp His Leu Gly Leu Leu Gly Ser Leu Val
1 5 10 15
Gly Ala Val Leu Ala Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr
20 25 30
Asp Pro Leu Thr His Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly
35 40 45

Gly Phe Ala Val Pro Leu Val Val Gly Gly Leu Cys Ala Val Val Leu
50 55 60

Gly Ala Ala Cys Leu Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp
65 70 75 80

Gly Arg Tyr His Pro Tyr Met Asp Pro Val Val Val
85 90

<210> 111
<211> 1381
<212> DNA
<213> Herpes Virus

<400> 111
caccgacgaa tcccctaagg gggagggggc atttttacgag gaggaggggt ataacaaagt 60
ctgtcttttaa aaagcagggg ttagggagtt gttcgggtcat aagcttcagc gcgaacgacc 120
aactaccccg atcatcagtt atccttaagg tctcttttgt gtggtgcgtt ccggtatggg 180
gggggctgac gccaggttgg gggccgtgat tttgtttgtc gtcatagtgg gcctccatgg 240
gggtccgcagc aaatatgcct tgggtggatgc ctctctcaag atggccgacc ccaatcgctt 300
tcgcggcaaaa gaccttcagg tcctggacca gctgaccgac cctccggggg tccggcgctt 360
gtaccacatc caggcggggc taccggaccc gtccagccc cccagcctcc cgatcacggg 420
ttactacgcc gtgttgaggc gcgcctgccg cagcgtgctc cttaaagcac cgctcgaggc 480
ccccagatt gtccgcgggg cctccgaaga cgcccgaaa caaccctaca acctgacct 540
cgcttggttt cggatgggag gcaactgtgc tatcccatc acggtcatgg agtacaccga 600
atgtctctac aacaagtctc tgggggcctg tcccatccga acgcagcccc gctggaacta 660
ctatgacagc ttcagcgccg tcagcgagga taacctgggg ttcctgatgc acgccccgcg 720
gtttgagacc gccggcacgt acctgcggct cgtgaagata aacgactgga cggagattac 780
acagtttatc ctggagcacc gagccaaggg ctctgtgaag tacgccctcc cgctgcgcat 840
ccccccgtca gcctgcctct cccccaggc ctaccagcag ggggtgacgg tggacagcat 900
cgggatgctg ccccgcttca tccccgagaa ccagcgcacc gtcgccgtat acagcttgaa 960
gatcgccggg tggcacgggc ccaaggcccc ataccagagc accctgctgc ccccgagct 1020
gtccgagacc cccaacgcca cgcagccaga actcgcccc gaagacccc aggattcggc 1080
cctcttgagg gaccccgagg ggacggtggc ggcgcaaact ccaccaaact ggcacatacc 1140
gtcgtaccag gacgcccga cgccttacca tccccgggc accccgaaca acatgggcct 1200
gatcgccggc gcggtgggag gcagtctcct ggcagccctg gtcatttgcg gaattgtgta 1260
ctggatgcgc cgccacactc aaaaagcccc aaagcgcata cgcctcccc acatccggga 1320
agacgaccag ccgtcctcgc accagccctt gttttactag ataccccccc ttaatgggtg 1380
c 1381

<210> 112
<211> 394
<212> PRT
<213> Herpes Virus

<400> 112
Met Gly Gly Ala Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
1 5 10 15
Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala
20 25 30
Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Pro
35 40 45
Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His
50 55 60

Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile
 65 70 75 80
 Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu
 85 90 95
 Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp
 100 105 110
 Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala Trp Phe Arg Met Gly
 115 120 125
 Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu Tyr Thr Glu Cys Ser
 130 135 140
 Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg Thr Gln Pro Arg Trp
 145 150 155 160
 Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu Asp Asn Leu Gly Phe
 165 170 175
 Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly Thr Tyr Leu Arg Leu
 180 185 190
 Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln Phe Ile Leu Glu His
 195 200 205
 Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro Leu Arg Ile Pro Pro
 210 215 220
 Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln Gly Val Thr Val Asp
 225 230 235 240
 Ser Ile Gly Met Leu Pro Arg Phe Ile Pro Glu Asn Gln Arg Thr Val
 245 250 255
 Ala Val Tyr Ser Leu Lys Ile Ala Gly Trp His Gly Pro Lys Ala Pro
 260 265 270
 Tyr Thr Ser Thr Leu Leu Pro Pro Glu Leu Ser Glu Thr Pro Asn Ala
 275 280 285
 Thr Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp Ser Ala Leu Leu
 290 295 300
 Glu Asp Pro Val Gly Thr Val Ala Pro Gln Ile Pro Pro Asn Trp His
 305 310 315 320
 Ile Pro Ser Ile Gln Asp Ala Ala Thr Pro Tyr His Pro Pro Ala Thr
 325 330 335
 Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val Gly Gly Ser Leu Leu
 340 345 350
 Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp Met Arg Arg His Thr
 355 360 365
 Gln Lys Ala Pro Lys Arg Ile Arg Leu Pro His Ile Arg Glu Asp Asp
 370 375 380
 Gln Pro Ser Ser His Gln Pro Leu Phe Tyr

385

390

<210> 113

<211> 1092

<212> DNA

<213> Herpes Virus

<400> 113

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at tt t t g t t t g   t c g t c a t a g t   g g g c c t c c a t   g g g g t c c g c a   g c a a a t a t g c   c t t g g t g g a t   60
g c c t c t c t c a   a g a t g g c c g a   c c c c a a t c g c   t t t c g c g g c a   a a g a c c t t c c   g g t c c t g g a c   120
c a g c t g a c c g   a c c c t c c g g g   g g t c c g g c g c   g t g t a c c a c a   t c c a g g c g g g   c c t a c c g g a c   180
c c g t t c c a g c   c c c c c a g c c t   c c c g a t c a c g   g t t t a c t a c g   c c g t g t t g g a   g c g c g c c t g c   240
c g c a g c g t g c   t c c t a a a c g c   a c c g t c g g a g   g c c c c c c a g a   t t g t c c g c g g   g g c c t c c g a a   300
g a c g t c c g g a   a a c a a c c c t a   c a a c c t g a c c   a t c g c t t g g t   t t c g g a t g g g   a g g c a a c t g t   360
g c t a t c c c c a   t c a c g g t c a t   g g a g t a c a c c   g a a t g c t c c t   a c a a c a a g t c   t c t g g g g g c c   420
t g t c c c a t c c   g a a c g c a g c c   c c g c t g g a a c   t a c t a t g a c a   g c t t c a g c g c   c g t c a g c g a g   480
g a t a a c c t g g   g g t t c c t g a t   g c a c g c c c c c   g c g t t t g a g a   c c g c c g g c a c   g t a c c t g c g g   540
c t c g t g a a g a   t a a a c g a c t g   g a c g g a g a t t   a c a c a g t t t a   t c c t g g a g c a   c c g a g c c a a g   600
g g c t c c t g t a   a g t a c g c c c t   c c c g c t g c g c   a t c c c c c c g t   c a g c c t g c c t   c t c c c c c c a g   660
g c c t a c c a g c   a g g g g g t g a c   g g t g g a c a c g   a t c g g g a t g c   t g c c c c g c t t   c a t c c c c g a g   720
a a c c a g c g c a   c c g t c g c c g t   a t a c a g c t t g   a a g a t c g c c g   g g t g g c a c g g   g c c c a a g g c c   780
c c a t a c a c g a   g c a c c c t g c t   g c c c c c g g a g   c t g t c c g a g a   c c c c a a c g c   c a c g c a g c c a   840
g a a c t c g c c c   c g g a a g a c c c   c g a g g a t t c g   g c c c t c t t g g   a g g a c c c c g t   g g g g a c g g t g   900
g c g c c g c a a a   t c c c a c c a a a   c t g g c a c a t a   c c g t c g a t c c   a g g a c g c c g c   g a c g c c t t a c   960
c a t c c c c c g g   c c a c c c c g a a   c a a c a t g g g c   c t g a t c g c c g   g c g c g g t g g g   c g g c a g t c t c   1020
c t g g c a g c c c   t g g t c a t t t g   c g g a a t t g t g   t a c t g g a t g c   g c c g c c a c a c   t c a a a a a g c c   1080
c c a a a g c g c a   t a                                     1092

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<210> 114

<211> 364

<212> PRT

<213> Herpes Virus

<400> 114

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Ile Leu Phe Val Val Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr
 1                      5                      10                      15

Ala Leu Val Asp Ala Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg
      20                      25                      30

Gly Lys Asp Leu Pro Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val
      35                      40                      45

Arg Arg Val Tyr His Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro
      50                      55                      60

Pro Ser Leu Pro Ile Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys
      65                      70                      75                      80

Arg Ser Val Leu Leu Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg
      85                      90                      95

Gly Ala Ser Glu Asp Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala
      100                      105                      110

Trp Phe Arg Met Gly Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu
      115                      120                      125

Tyr Thr Glu Cys Ser Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg

```

130	135	140
Thr Gln Pro Arg Trp Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu		
145	150	155 160
Asp Asn Leu Gly Phe Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly		
	165	170 175
Thr Tyr Leu Arg Leu Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln		
	180	185 190
Phe Ile Leu Glu His Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro		
	195	200 205
Leu Arg Ile Pro Pro Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln		
	210	215 220
Gly Val Thr Val Asp Ser Ile Gly Met Leu Pro Arg Phe Ile Pro Glu		
	225	230 235 240
Asn Gln Arg Thr Val Ala Val Tyr Ser Leu Lys Ile Ala Gly Trp His		
	245	250 255
Gly Pro Lys Ala Pro Tyr Thr Ser Thr Leu Leu Pro Pro Glu Leu Ser		
	260	265 270
Glu Thr Pro Asn Ala Thr Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu		
	275	280 285
Asp Ser Ala Leu Leu Glu Asp Pro Val Gly Thr Val Ala Pro Gln Ile		
	290	295 300
Pro Pro Asn Trp His Ile Pro Ser Ile Gln Asp Ala Ala Thr Pro Tyr		
	305	310 315 320
His Pro Pro Ala Thr Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val		
	325	330 335
Gly Gly Ser Leu Leu Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp		
	340	345 350
Met Arg Arg His Thr Gln Lys Ala Pro Lys Arg Ile		
	355	360

<210> 115

<211> 1185

<212> DNA

<213> Herpes Virus

<400> 115

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atgggggggg ctgccgccag gttggggggc gtgattttgt ttgtcgtcat agtgggcctc 60
catgggggtcc gcagcaaata tgccttggtg gatgcctctc tcaagatggc cgaccccaat 120
cgcttttcgcg gcaaagacct tccggtcctg gaccagctga ccgaccctcc ggggggtccg 180
cgcgtgtacc acatccaggc gggcctaccg gacccggtcc agccccccag cctcccgatc 240
acggtttact acgccgtgtt ggagcgcgcc tgccgcagcg tgctcctaaa cgcaccgtcg 300
gaggcccccc agattgtccg cggggcctcc gaagacgtcc ggaacaacc ctacaacctg 360
accatcgctt ggtttcggat gggaggcaac tgtgctatcc ccatcacggt catggagtac 420
accgaatgct cctacaacaa gtctctgggg gcctgtccca tccgaacgca gccccgctgg 480
aactactatg acagcttcag cgccgtcagc gaggataacc tgggggttcct gatgcacgcc 540
cccgcgtttg agaccgccgg cacgtacctg cggctcgtga agataaacga ctggacggag 600

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attacacagt ttatcctgga gcaccgagcc aagggctcct gtaagtacgc cctcccgtcg 660
cgcaccccc cgtagcctg cctctcccc caggcctacc agcagggggt gacgggtggac 720
agcatcgga tgctgccccg cttcatcccc gagaaccagc gcaccgtcgc cgtatacagc 780
ttgaagatcg ccgggtggca cgggcccaag gcccataca cgagcaccct gctgcccccg 840
gagctgtccg agaccccaa cgccacgcag ccagaactcg ccccggaaga ccccgaggat 900
tcggccctct tggaggacc cgtaggggacg gtggcgccgc aaatcccacc aaactggcac 960
ataccgtcga tccaggacgc cgcgacgcct taccatcccc cggccacccc gaacaacatg 1020
ggcctgatcg ccggcgcggt gggcggcagt ctctggcag ccttggtcat ttgcggaatt 1080
gtgtactgga tgcgccgcca cactcaaaaa gcccacaaagc gcatacgctt ccccccacatc 1140
cggaagacg accagccgtc ctgcaccag cccttggttt actag 1185

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<210> 116
 <211> 394
 <212> PRT
 <213> Herpes Virus

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<400> 116
Met Gly Gly Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
  1           5           10          15

Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala
      20           25           30

Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Pro
      35           40           45

Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His
      50           55           60

Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile
      65           70           75           80

Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu
      85           90           95

Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp
      100          105          110

Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala Trp Phe Arg Met Gly
      115          120          125

Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu Tyr Thr Glu Cys Ser
      130          135          140

Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg Thr Gln Pro Arg Trp
      145          150          155          160

Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu Asp Asn Leu Gly Phe
      165          170          175

Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly Thr Tyr Leu Arg Leu
      180          185          190

Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln Phe Ile Leu Glu His
      195          200          205

Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro Leu Arg Ile Pro Pro
      210          215          220

Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln Gly Val Thr Val Asp

```

225		230		235		240
Ser Ile Gly Met	Leu Pro Arg Phe Ile	Pro Glu Asn Gln Arg Thr Val				
	245	250			255	
Ala Val Tyr Ser	Leu Lys Ile Ala Gly Trp His Gly Pro Lys Ala Pro					
	260	265			270	
Tyr Thr Ser Thr	Leu Leu Pro Pro Glu Leu Ser Glu Thr Pro Asn Ala					
	275	280			285	
Thr Gln Pro Glu	Leu Ala Pro Glu Asp Pro Glu Asp Ser Ala Leu Leu					
	290	295			300	
Glu Asp Pro Val Gly	Thr Val Ala Pro Gln Ile Pro Pro Asn Trp His					
305	310	315			320	
Ile Pro Ser Ile	Gln Asp Ala Ala Thr Pro Tyr His Pro Pro Ala Thr					
	325	330			335	
Pro Asn Asn Met	Gly Leu Ile Ala Gly Ala Val Gly Gly Ser Leu Leu					
	340	345			350	
Ala Ala Leu Val	Ile Cys Gly Ile Val Tyr Trp Met Arg Arg His Thr					
	355	360			365	
Gln Lys Ala Pro	Lys Arg Ile Arg Leu Pro His Ile Arg Glu Asp Asp					
	370	375			380	
Gln Pro Ser Ser	His Gln Pro Leu Phe Tyr					
385	390					